IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-10SP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 194021
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2019-04-13
[ISSUEDATE] 2019-04-13
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] GAU-LTL-200W-LED-10SP
[LUMINAIRE] 200W LED FLOOD LIGHT - 10 DEGREE OPTICS
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
[LAMPPOSITION] 0,0

CHARACTERISTICS



Lumens Per Lamp	27000 (1 lamp)
Total Lamp Lumens	27000
Luminaire Lumens	27095
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	200
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.28
Spacing Criterion (90-270)	0.26
Spacing Criterion (Diagonal)	0.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.00 ft
Luminous Width (90-270)	1.40 ft
Luminous Height	0.30 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7113	4719	4475
55	1101	79	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0	221953.932	221953.932	221953.932	221953.932	221953.932	221953.932	221953.932	221953.932	221953.932	221953.939
1	217702.292	217314.522	215854.982	215802.542	217043.402	218331.382	219451.582	220776.082	222365.672	222426.581
2	209202.362	208001.622	205390.382	204266.142	205036.052	207817.492	211635.532	215398.252	217788.122	217577.206
3	198284.489	195635.641	192504.339	190845.934	191274.838	195172.062	201342.342	206901.722	209157.382	208673.917
4	182897.450	179365.960	175979.262	173903.516	174118.494	178923.098	186321.672	193397.802	196534.550	195932.374
5	165991.580	162583.505	159049.926	156527.924	156647.975	162634.628	169873.904	177589.514	182371.872	182029.879
6	147563.040	144559.399	140891.176	138701.420	138645.021	145555.428	151989.048	159087.370	165044.406	165222.948
7	126489.316	124333.369	121076.006	119854.049	119361.958	125348.050	130796.117	136124.461	142303.631	142821.914
8	107379.064	105776.068	103627.607	102783.830	102326.520	106255.070	110380.744	113911.453	119431.371	119658.487
9	90454.072	88315.394	87389.729	86298.980	86045.989	88643.165	91167.514	92929.229	97434.250	97291.390
10	75375.917	72123.372	71857.674	70406.985	69794.262	71891.712	73873.726	74393.554	77870.215	78225.374
11	63698.524	60209.746	59574.354	58427.929	56895.684	58988.532	61370.240	62225.474	64858.578	66073.794
12	52541.894	49870.672	48409.029	47698.438	45376.991	48077.096	50597.606	52315.958	54166.477	55691.918
13	43957.491	42309.773	40325.146	39598.636	37521.237	40715.605	42931.212	44837.836	45871.916	47403.471
14	36892.683	35787.973	33788.868	32938.769	31745.292	34813.461	36352.302	38273.190	38628.461	39858.137
15	30661.297	29474.561	28180.370	27045.855	26475.158	28960.583	29874.999	31935.017	32093.069	32578.721
16	26057.780	24679.130	24313.487	23048.153	22442.026	24310.961	25152.183	27009.449	27197.978	27398.135
17	22063.514	20957.038	20988.326	20129.644	19400.962	20718.212	21653.111	22987.476	23128.487	23468.762
18	18301.963	17867.683	17590.271	17361.257	16680.993	17542.093	18471.363	19268.616	19333.933	19939.823
19	15522.854	15584.715	15041.891	15007.463	14564.568	14945.311	15800.898	16306.174	16499.115	17257.357
20	13101.176	13338.407	12913.918	12915.413	12792.480	12711.664	13254.691	13727.317	13972.482	14821.381
21	11343.045	11458.007	11325.295	11407.985	11331.996	11148.763	11332.062	11843.744	11791.295	12670.689
22	10062.417	9918.655	10030.186	9997.399	9971.548	9720.767	9814.847	10191.478	9745.334	10638.618
23	9035.124	8554.847	8850.421	8565.187	8758.518	8286.437	8417.549	8437.410	7847.251	8797.424
24	8132.589	7523.604	7911.110	7496.146	7715.777	7072.621	7147.617	6977.312	6587.338	7455.479
25	7307.372	6804.264	7030.749	6609.031	6712.233	6016.583	5982.171	5857.867	5749.605	6372.838
26	6572.762	6253.702	6076.072	5851.765	5886.899	5197.040	5046.117	4860.305	4955.373	5491.160
27	5913.477	5737.118	5330.978	5366.324	5336.241	4618.430	4482.411	4025.803	4182.920	4762.511
28	5184.080	5085.543	4716.506	4884.543	4724.016	4063.318	4016.141	3294.367	3424.150	3884.933
29	4588.803	4506.733	4262.183	4368.604	4189.500	3704.404	3644.317	2844.360	2929.438	3197.782
30	4102.004	4038.332	3839.330	3884.206	3708.068	3390.054	3247.464	2533.566	2580.610	2748.868
31	3640.894	3596.404	3456.984	3489.028	3185.819	2994.320	2774.079	2242.487	2176.841	2439.042
32	3195.282	3131.696	3161.692	3187.709	2812.661	2632.847	2423.253	1969.810	1748.925	2145.819
33	2754.509	2683.571	2821.077	2832.259	2614.914	2337.223	2155.702	1643.850	1393.048	1805.042
34	2366.667	2399.807	2462.990	2369.346	2465.279	2136.755	1903.010	1272.973	1121.514	1431.954
35	2167.732	2288.991	2263.909	1982.634	2254.978	1989.608	1688.165	1022.270	891.357	1111.349
36	2044.939	2141.341	2099.436	1737.261	1972.764	1768.163	1404.264	847.067	659.111	839.968
37	1891.761	1934.177	1883.224	1669.667	1758.883	1492.125	1133.066	688.658	498.563	637.622
38	1726.323	1747.044	1669.480	1620.683	1567.113	1209.882	908.758	497.072	357.738	446.842
39	1578.499	1603.398	1474.084	1501.692	1379.207	973.216	681.011	292.907	205.507	263.812
40	1458.320	1500.313	1317.740	1353.789	1222.767	778.825	466.341	154.496	92.426	127.835
41	1364.061	1409.049	1204.864	1194.242	1054.439	598.101	288.300	82.627	28.064	42.487
42	1261.416	1264.802	1078.586	1020.501	900.193	499.373	166.567	47.966	4.299	7.344
43	1115.403	1099.045	922.163	863.916	792.837	441.728	90.977	23.366	0.415	0.822
44	949.621	935.535	729.758	681.264	652.581	310.154	31.878	5.994	0.017	0.037
45	851.213	799.720	592.435	526.918	500.187	180.147	7.191	0.914	0.000	0.000
46	753.440	703.879	524.509	416.900	344.047	89.589	0.910	0.075	0.000	0.000
47	592.543	651.314	461.966	336.524	198.445	29.701	0.046	0.004	0.000	0.000
48	456.122	576.837	381.067	256.497	110.035	6.509	0.000	0.000	0.000	0.000
49	391.917	460.550	297.858	163.763	52.723	0.640	0.000	0.000	0.000	0.000
50	357.315	352.446	218.384	106.284	20.450	0.042	0.000	0.000	0.000	0.000
51	297.709	247.375	136.916	67.241	4.972	0.000	0.000	0.000	0.000	0.000
52	237.621	154.205	78.083	28.206	0.548	0.000	0.000	0.000	0.000	0.000
53	211.239	101.806	49.624	7.166	0.037	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

54	181.704	79.420	27.088	0.964	0.000	0.000	0.000	0.000	0.000	0.000
55	117.450	67.403	9.002	0.050	0.000	0.000	0.000	0.000	0.000	0.000
56	58.031	46.060	1.923	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57	19.931	22.606	0.183	0.000	0.000	0.000	0.000	0.000	0.000	0.000
58	5.226	11.041	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
59	0.835	4.374	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.058	0.868	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
61	0.004	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
63	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
64	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
66	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
68	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
69	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
71	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
78	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
79	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
81	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
83	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
84	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
86	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
88	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
89	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-10SP.IES

CANDELA TABULATION - (Cont.)

166	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0	221953.939	221953.939	221953.939	221953.939	221953.939	221953.939	221953.939
1	222231.734	221497.539	220901.313	219652.362	218840.272	218301.062	217702.291
2	217208.482	215421.782	213543.662	211271.538	210234.812	210094.892	209202.364
3	208522.712	206229.162	203688.902	200855.192	199300.341	199375.254	198284.489
4	195356.106	192523.285	189871.737	186718.731	184501.604	184251.450	182897.450
5	180360.315	177700.601	175141.172	171788.553	168719.752	167864.768	165991.580
6	163232.252	161223.847	159025.326	155570.481	151304.294	149830.135	147563.040
7	141755.640	140272.782	139434.771	135963.448	130717.590	129270.265	126489.316
8	120205.556	119373.198	120184.134	116926.916	111555.009	110790.461	107379.064
9	99843.554	99609.401	101434.649	98954.419	94211.822	93853.116	90454.072
10	81662.156	81629.647	83595.004	81998.302	78528.387	77948.813	75375.917
11	68484.372	68677.471	69964.854	68440.365	66153.135	65357.345	63698.524
12	56669.009	57025.248	56986.262	55605.863	53987.357	53237.892	52541.894
13	47994.244	47565.231	46901.364	46215.215	44870.145	44011.219	43957.491
14	40941.612	39201.817	39045.236	38775.758	37903.896	36927.934	36892.683
15	34145.913	31951.683	32805.637	32195.797	31490.764	30896.883	30661.297
16	28548.514	27252.761	28529.892	27542.922	26329.036	26247.884	26057.780
17	23803.969	23769.271	24918.791	23914.657	22462.036	22307.831	22063.514
18	19859.397	20610.694	21381.323	20638.576	19660.217	18737.078	18301.963
19	17172.358	18098.945	18631.130	18164.811	17390.534	16051.746	15522.854
20	14736.062	15599.761	16428.625	15985.107	14807.830	13694.621	13101.176
21	12875.830	13448.911	14934.797	14165.510	12838.718	11991.410	11343.045
22	11309.622	11620.532	13433.612	12359.704	11325.702	10568.150	10062.417
23	9745.924	10068.781	11530.357	10619.302	9843.227	9247.398	9035.124
24	8418.376	8823.399	9816.953	9256.412	8644.283	8225.946	8132.589
25	7210.966	7721.077	8412.664	8030.833	7769.492	7363.343	7307.372
26	6081.626	6706.579	7245.074	6932.116	7046.829	6598.475	6572.762
27	5208.526	5816.875	6419.097	6107.331	6362.478	6024.077	5913.477
28	4365.754	4891.738	5674.123	5304.587	5536.763	5402.697	5184.080
29	3680.220	4148.031	5030.461	4601.942	4771.222	4765.469	4588.803
30	3044.379	3515.048	4368.168	4016.474	4115.833	4073.894	4102.004
31	2472.303	2943.977	3702.772	3616.863	3597.622	3446.736	3640.894
32	2097.716	2566.827	3214.436	3291.895	3234.907	3115.853	3195.282
33	1834.278	2312.445	2865.741	2859.572	2975.057	2873.127	2754.509
34	1655.523	2056.122	2570.304	2408.423	2762.485	2550.319	2366.667
35	1513.942	1792.551	2317.001	2102.410	2462.770	2275.989	2167.732
36	1266.039	1494.123	2009.622	1822.015	2052.334	2046.967	2044.939

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CANDELA TABULATION - (Cont.)

37	972.231	1215.548	1671.532	1577.157	1747.579	1865.387	1891.761
38	710.297	921.648	1335.154	1342.245	1494.073	1694.180	1726.323
39	476.447	613.579	997.903	1121.331	1195.716	1523.866	1578.499
40	298.257	431.547	730.468	970.113	954.581	1392.529	1458.320
41	165.749	348.600	517.173	805.623	823.751	1255.027	1364.061
42	78.789	260.580	323.526	576.251	743.549	1052.582	1261.416
43	33.784	151.434	174.580	386.978	635.130	842.614	1115.403
44	8.873	53.246	60.902	254.487	462.128	648.867	949.621
45	1.516	11.968	13.916	174.447	308.551	528.086	851.213
46	0.141	1.479	1.770	98.633	208.759	430.537	753.440
47	0.004	0.071	0.091	38.258	146.919	322.234	592.543
48	0.000	0.004	0.004	13.276	105.453	238.656	456.122
49	0.000	0.000	0.000	3.240	63.216	162.068	391.917
50	0.000	0.000	0.000	0.544	29.846	100.656	357.315
51	0.000	0.000	0.000	0.050	9.288	61.986	297.709
52	0.000	0.000	0.000	0.000	1.417	52.037	237.621
53	0.000	0.000	0.000	0.000	0.133	52.585	211.239
54	0.000	0.000	0.000	0.000	0.008	41.490	181.704
55	0.000	0.000	0.000	0.000	0.000	18.519	117.450
56	0.000	0.000	0.000	0.000	0.000	4.773	58.031
57	0.000	0.000	0.000	0.000	0.000	0.523	19.931
58	0.000	0.000	0.000	0.000	0.000	0.033	5.226
59	0.000	0.000	0.000	0.000	0.000	0.000	0.835
60	0.000	0.000	0.000	0.000	0.000	0.000	0.058
61	0.000	0.000	0.000	0.000	0.000	0.000	0.004
62	0.000	0.000	0.000	0.000	0.000	0.000	0.000
63	0.000	0.000	0.000	0.000	0.000	0.000	0.000
64	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000
66	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67	0.000	0.000	0.000	0.000	0.000	0.000	0.000
68	0.000	0.000	0.000	0.000	0.000	0.000	0.000
69	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000
71	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77	0.000	0.000	0.000	0.000	0.000	0.000	0.000
78	0.000	0.000	0.000	0.000	0.000	0.000	0.000
79	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000
81	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82	0.000	0.000	0.000	0.000	0.000	0.000	0.000
83	0.000	0.000	0.000	0.000	0.000	0.000	0.000
84	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000
86	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87	0.000	0.000	0.000	0.000	0.000	0.000	0.000
88	0.000	0.000	0.000	0.000	0.000	0.000	0.000
89	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

93	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

149	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	22243.89	82.40	82.10
0-30	25611.98	94.90	94.50
0-40	26817.43	99.30	99.00
0-60	27095.2	100.40	100.00
0-80	27095.21	100.40	100.00
0-90	27095.21	100.40	100.00
10-90	14061.98	52.10	51.90
20-40	4573.53	16.90	16.90
20-50	4834.45	17.90	17.80
40-70	277.78	1.00	1.00
60-80	0.00	0.00	0.00
70-80	0.00	0.00	0.00
80-90	0.00	0.00	0.00
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	27095.21	100.40	100.00

Total Luminaire Efficiency = 100.40%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	13033.22
10-20	9210.67
20-30	3368.09
30-40	1205.45
40-50	260.92
50-60	16.86
60-70	0.00
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-10SP.IES

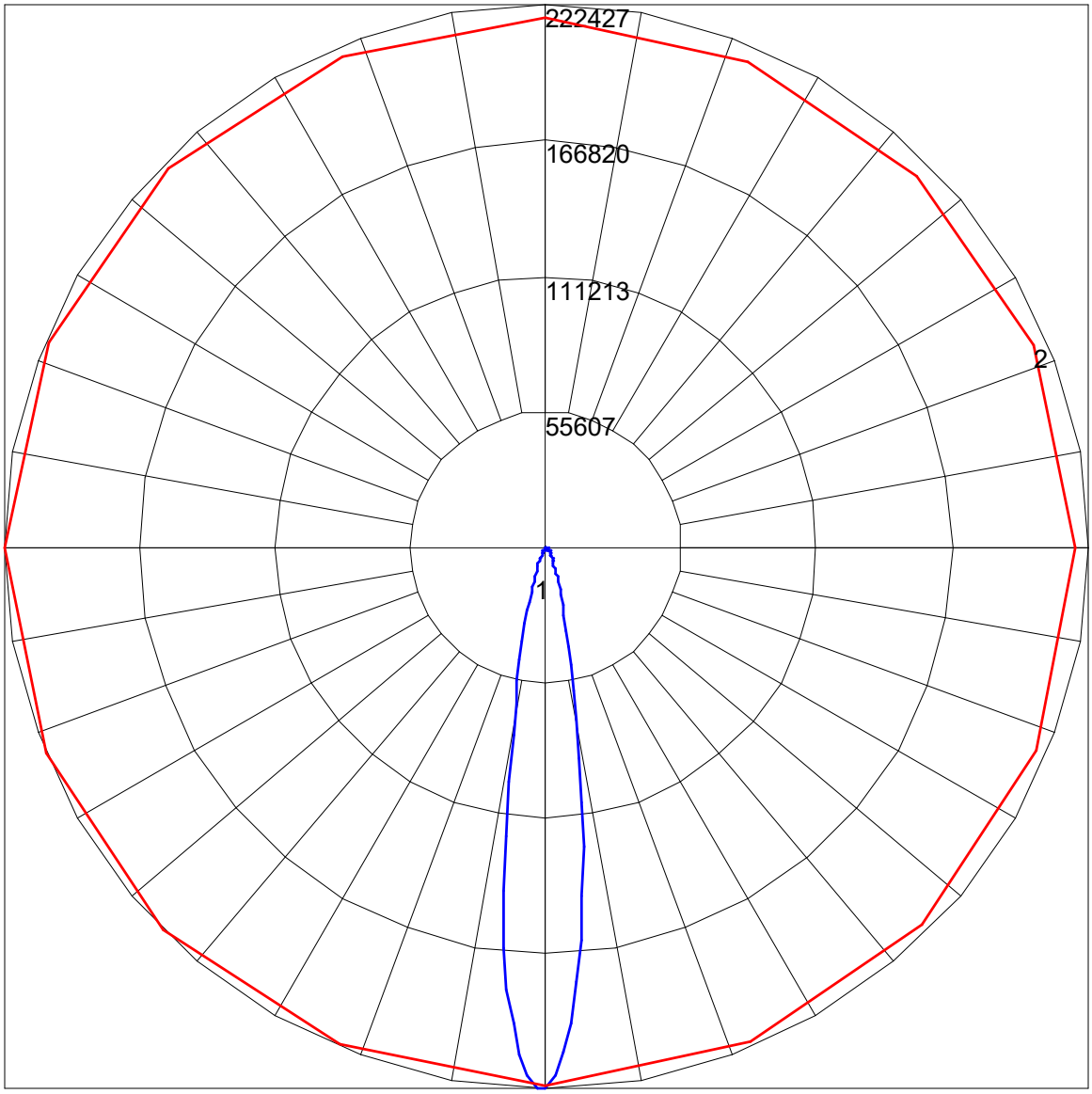
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	117	117	117	117	112	112	112	107	107	107	102	102	102	100
1	116	114	112	110	113	112	110	109	108	106	105	104	103	102	101	100	99	98
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	97	95	94	92
4	106	101	97	95	105	100	97	94	98	95	93	96	94	92	95	93	91	90
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88
6	101	95	91	88	100	94	91	88	93	90	88	92	89	87	91	88	87	86
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	84	84
8	96	90	86	84	95	90	86	83	89	85	83	88	85	83	87	84	83	82
9	94	88	84	82	93	87	84	82	87	84	81	86	83	81	85	83	81	80
10	92	86	82	80	91	85	82	80	85	82	80	84	81	79	84	81	79	78

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-10SP.IES

POLAR GRAPH



Maximum Candela = 222426.581 Located At Horizontal Angle = 202.5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (202.5 - 22.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-24WS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 194022
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2019-04-13
[ISSUEDATE] 2019-04-13
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] GAU-LTL-200W-LED-24WS
[LUMINAIRE] 200W LED FLOOD LIGHT - 24 DEGREE OPTICS
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
[LAMPPOSITION] 0,0

CHARACTERISTICS



Lumens Per Lamp	27000 (1 lamp)
Total Lamp Lumens	27000
Luminaire Lumens	25748
Total Luminaire Efficiency	95 %
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	200
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.40
Spacing Criterion (Diagonal)	0.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.00 ft
Luminous Width (90-270)	1.40 ft
Luminous Height	0.30 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18860	17658	18987
55	10361	8856	9577
65	4938	4846	5456
75	2695	2616	3130
85	1095	879	1316

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-24WS.IES

CANDELA TABULATION

	0	30	60	90	120	150	180	210	240	270
0	89964.632	89964.632	89964.632	89964.632	89964.632	89964.632	89964.632	89964.632	89964.632	89964.632
5	83557.294	81810.330	81043.501	79031.927	78167.895	76288.625	78662.013	78986.025	78518.908	79504.444
10	57417.626	55973.073	55894.770	53475.480	52284.736	49503.633	50583.673	52012.026	52346.839	54193.707
15	31264.458	30519.230	30727.138	29085.477	28110.741	26145.337	26696.159	27808.330	28356.450	29768.602
20	16158.748	15881.179	15999.442	15124.879	14540.850	13514.540	13821.271	14335.912	14679.363	15395.701
25	9073.956	9021.845	9065.046	8644.101	8338.718	7834.881	8068.979	8254.476	8398.121	8688.922
30	5856.517	5816.825	5858.947	5652.119	5432.601	5170.151	5359.968	5413.700	5502.264	5673.180
35	4212.426	4153.294	4180.835	4060.410	3904.885	3740.179	3902.455	3909.745	3968.067	4084.441
40	3202.049	3151.017	3163.437	3065.964	2958.230	2818.094	2942.839	2938.249	2963.090	3043.013
45	2256.960	2217.916	2215.297	2122.441	2055.181	1950.795	2025.318	2051.104	2074.325	2135.509
50	1542.594	1508.627	1495.990	1426.814	1376.133	1308.819	1375.107	1391.011	1403.836	1449.900
55	1105.178	1014.455	994.987	934.019	910.204	865.220	963.639	930.589	937.367	959.562
60	699.542	675.673	654.450	620.969	595.156	579.711	595.480	623.507	622.670	642.192
65	446.435	500.761	448.271	438.118	409.794	428.749	392.487	467.063	427.453	454.076
70	299.495	373.127	316.209	298.064	291.962	342.454	266.837	365.999	304.787	311.484
75	192.477	211.169	204.349	189.788	189.625	189.788	173.330	207.176	199.589	200.148
80	115.451	117.198	114.811	109.632	106.116	105.244	103.581	118.281	113.275	119.666
85	55.047	52.161	50.670	51.520	48.145	46.480	49.401	54.534	54.780	59.411
90	19.862	22.459	22.308	22.481	22.830	21.096	23.761	25.111	26.580	28.486
95	20.829	22.692	22.643	23.715	22.737	22.576	24.214	24.879	26.545	26.974
100	23.715	24.436	25.332	25.775	24.541	24.587	26.580	28.616	28.451	27.498
105	26.404	28.521	27.998	28.637	28.162	27.614	31.502	30.932	30.733	31.210
110	30.173	32.712	33.468	32.782	34.631	31.664	34.666	34.550	36.389	33.236
115	34.561	36.495	43.745	41.244	43.350	36.519	39.543	38.555	42.629	40.404
120	41.684	43.315	47.376	47.878	46.796	40.872	42.092	39.940	43.920	44.014
125	49.239	50.775	54.685	56.478	54.407	50.484	44.943	44.398	48.424	48.726
130	60.110	60.669	65.661	65.696	66.547	59.645	50.368	48.202	54.348	54.942
135	71.328	71.364	73.518	75.543	74.064	70.735	57.631	55.803	59.678	61.692
140	83.096	82.118	81.840	83.225	80.954	81.362	68.734	66.161	67.373	65.394
145	91.685	90.127	87.613	85.807	87.786	88.626	77.231	73.877	75.333	71.817
150	95.260	93.013	90.788	87.019	90.651	91.396	83.806	81.384	79.931	74.426
155	94.128	90.999	88.485	84.843	88.344	88.833	84.772	81.886	80.163	75.122
160	88.275	86.147	80.814	78.173	80.593	84.108	80.687	79.348	76.753	71.539
165	79.024	79.267	72.295	71.410	71.364	75.716	74.693	73.554	69.047	65.928
170	67.989	67.616	65.858	65.173	64.289	65.137	65.369	65.207	63.752	61.041
175	59.958	59.899	59.610	59.340	58.700	58.176	59.375	58.341	58.317	59.167
180	56.359	56.359	56.359	56.359	56.359	56.359	56.359	56.359	56.359	56.359

Vert. Angles	**Horizontal Angles**		
	300	**330**	**360**
0	89964.632	89964.632	89964.632
5	79304.637	80087.666	83557.294
10	53812.993	54728.327	57417.626
15	29382.488	29717.300	31264.458
20	15135.140	15286.076	16158.748
25	8556.348	8593.608	9073.956
30	5547.355	5565.176	5856.517
35	3999.658	4012.079	4212.426
40	3013.312	3032.482	3202.049
45	2123.008	2141.017	2256.960
50	1441.610	1456.947	1542.594
55	962.262	974.385	1105.178
60	632.471	651.858	699.542

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-24WS.IES

CANDELA TABULATION - (Cont.)

65	436.255	471.086	446.435
70	313.131	373.424	299.495
75	203.895	216.896	192.477
80	116.393	124.029	115.451
85	56.432	58.306	55.047
90	26.299	25.170	19.862
95	26.169	24.471	20.829
100	26.391	25.810	23.715
105	29.312	29.010	26.404
110	35.609	32.690	30.173
115	41.501	36.435	34.561
120	43.909	39.497	41.684
125	47.260	41.744	49.239
130	52.674	46.504	60.110
135	57.339	52.927	71.328
140	64.427	61.319	83.096
145	72.622	70.270	91.685
150	77.266	77.847	95.260
155	77.836	79.162	94.128
160	74.682	78.802	88.275
165	65.963	71.480	79.024
170	61.622	62.472	67.989
175	57.653	55.863	59.958
180	56.359	56.359	56.359

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-24WS.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	15303.61	56.70	59.40
0-30	19558.27	72.40	76.00
0-40	22142.95	82.00	86.00
0-60	24700.13	91.50	95.90
0-80	25374.65	94.00	98.50
0-90	25441.02	94.20	98.80
10-90	18652.79	69.10	72.40
20-40	6839.34	25.30	26.60
20-50	8507.18	31.50	33.00
40-70	3012.46	11.20	11.70
60-80	674.52	2.50	2.60
70-80	219.25	0.80	0.90
80-90	66.37	0.20	0.30
90-110	57.86	0.20	0.20
90-120	96.56	0.40	0.40
90-130	141.13	0.50	0.50
90-150	241.90	0.90	0.90
90-180	307.12	1.10	1.20
110-180	249.27	0.90	1.00
0-180	25748.15	95.40	100.00

Total Luminaire Efficiency = 95.40%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	6788.24
10-20	8515.37
20-30	4254.67
30-40	2584.67
40-50	1667.84
50-60	889.34
60-70	455.27
70-80	219.25
80-90	66.37
90-100	26.71
100-110	31.15
110-120	38.70
120-130	44.57
130-140	50.43
140-150	50.33
150-160	38.74
160-170	20.70
170-180	5.79

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PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-24WS.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

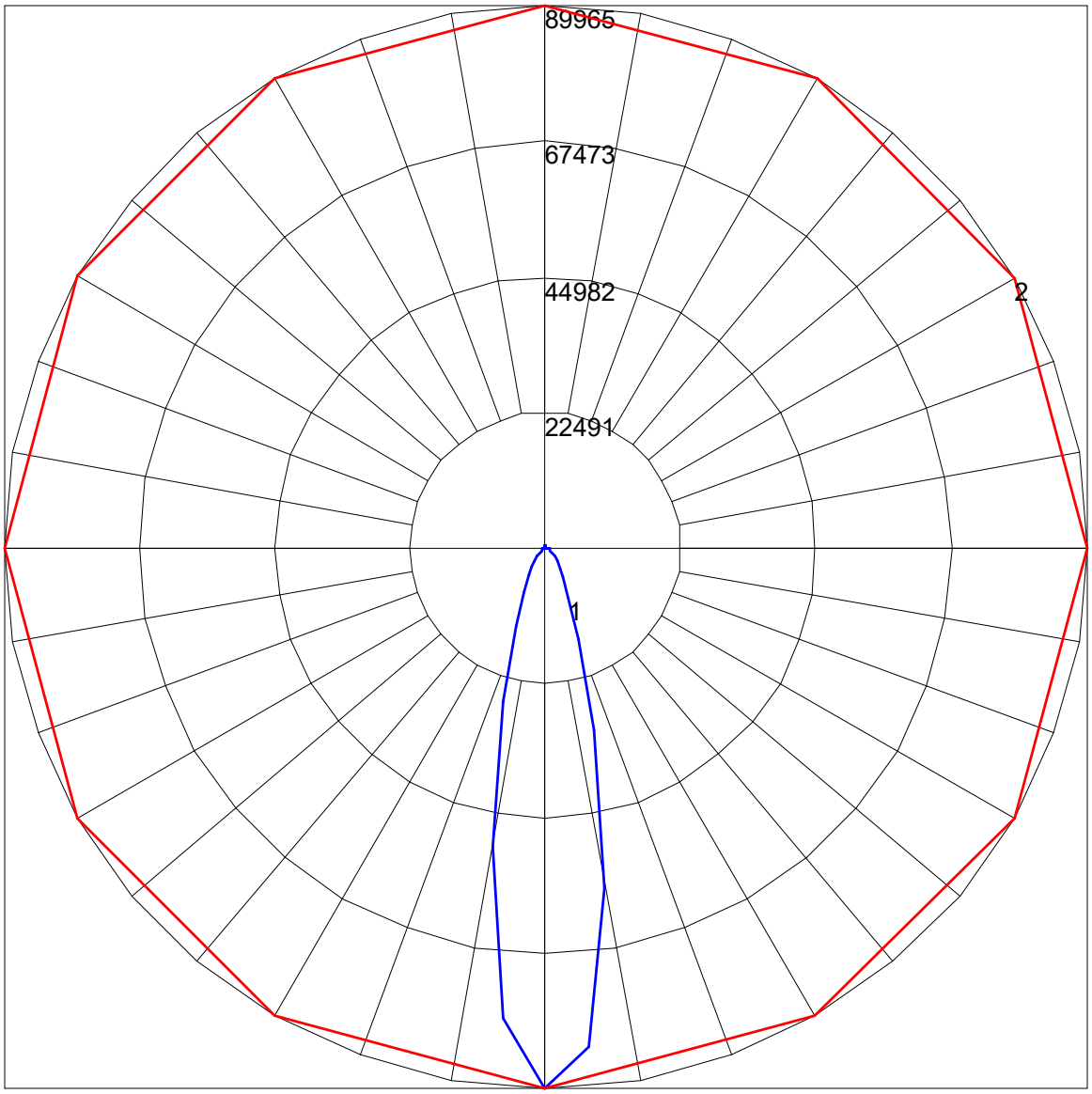
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	113	113	113	113	110	110	110	110	105	105	105	101	101	101	96	96	96	94
1	108	106	103	101	106	103	101	100	99	98	96	96	94	93	92	91	90	89
2	103	99	95	92	101	97	94	91	94	91	89	91	89	87	88	86	85	83
3	99	93	88	85	97	92	87	84	89	85	83	86	84	81	84	82	80	78
4	94	88	83	79	93	87	82	79	84	81	78	82	79	77	81	78	76	74
5	90	83	78	74	89	82	78	74	80	76	73	79	75	73	77	74	72	71
6	87	79	74	70	85	78	74	70	77	73	70	76	72	69	74	71	69	67
7	83	76	71	67	82	75	70	67	74	69	66	73	69	66	71	68	66	64
8	80	72	67	64	79	72	67	64	71	67	64	70	66	63	69	65	63	62
9	78	70	65	61	77	69	64	61	68	64	61	67	63	61	66	63	60	59
10	75	67	62	59	74	67	62	59	66	62	59	65	61	58	64	61	58	57

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PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-24WS.IES

POLAR GRAPH



Maximum Candela = 89964.632 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-38NF.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 194023
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2019-04-13
[ISSUEDATE] 2019-04-13
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] GAU-LTL-200W-LED-38NF
[LUMINAIRE] 200W LED FLOOD LIGHT - 38 DEGREE OPTICS
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
[LAMPPOSITION] 0,0

CHARACTERISTICS



Lumens Per Lamp	27000 (1 lamp)
Total Lamp Lumens	27000
Luminaire Lumens	26214
Total Luminaire Efficiency	97 %
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	200
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.62
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.00 ft
Luminous Width (90-270)	1.40 ft
Luminous Height	0.30 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10801	11095	14047
55	6001	5817	7467
65	2579	2400	2860
75	1066	860	845
85	0	0	0

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-38NF.IES

CANDELA TABULATION

	0	30	60	90	120	150	180	210	240	270
0	53002.963	53002.963	53002.963	53002.963	53002.963	53002.963	53002.963	53002.963	53002.963	53002.963
5	50664.676	49384.829	48618.000	48131.982	48401.992	49158.020	50580.973	51596.211	52165.932	52741.053
10	43017.993	41087.422	39991.181	39437.660	39853.476	41206.226	43582.314	45642.490	46754.931	47751.268
15	32009.685	30173.617	29185.381	28858.669	29614.697	31269.858	33891.655	36351.446	37536.790	38689.733
20	21100.470	19720.449	19178.271	19101.855	20021.782	21427.724	23717.678	25917.179	26919.186	27878.532
25	12548.715	11653.362	11437.083	11628.251	12374.558	13505.360	15196.163	16982.550	17553.081	18054.759
30	6685.448	6229.131	6298.523	6624.155	7091.543	7851.621	8970.002	10085.143	10388.365	10579.532
35	3603.014	3432.907	3516.340	3732.348	4052.040	4491.886	5165.291	5696.401	5812.235	5733.662
40	2118.174	2111.748	2195.046	2380.057	2569.226	2782.183	3080.004	3335.974	3331.653	3190.438
45	1292.538	1346.405	1439.261	1570.189	1743.752	1872.087	2051.455	2217.673	2143.015	2008.577
50	958.995	906.829	980.190	1053.498	1201.652	1313.707	1481.248	1495.990	1419.983	1313.275
55	640.140	642.408	677.428	728.217	820.614	903.264	976.869	1008.487	945.008	877.019
60	423.619	396.429	408.795	428.263	480.267	522.118	604.201	657.420	624.452	590.215
65	233.216	233.883	236.102	229.684	250.629	247.615	254.746	307.136	327.927	343.588
70	158.552	166.197	145.997	131.619	145.438	152.836	128.168	182.324	190.638	199.696
75	76.154	75.489	61.128	51.218	60.050	65.659	44.711	80.603	95.791	111.628
80	22.621	19.711	10.425	5.892	9.426	17.011	0.000	25.178	25.908	32.993
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	5.457	3.400	5.686	0.000	0.000	0.000	0.000	0.000
135	0.824	4.458	6.081	16.452	10.881	3.130	0.000	0.000	0.000	0.000
140	8.638	13.895	13.479	23.828	17.945	14.475	0.000	0.000	2.714	4.439
145	15.515	23.515	14.103	20.397	18.404	27.503	6.494	7.371	2.859	6.310
150	22.954	24.471	16.452	20.170	17.554	30.495	10.277	17.159	3.877	2.570
155	21.333	22.913	20.524	15.347	23.952	29.085	12.418	21.231	7.574	3.688
160	18.982	20.877	19.776	18.047	21.001	23.080	7.887	20.337	13.997	11.462
165	13.457	14.416	13.044	15.058	15.806	11.441	10.382	11.319	15.040	12.855
170	2.692	5.708	4.004	5.978	4.874	2.946	1.156	4.147	13.023	12.834
175	0.000	1.510	0.000	0.284	1.674	0.000	0.000	0.000	1.404	0.000
180	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297

Vert. Angles	**Horizontal Angles**		
	300	**330**	**360**
0	53002.963	53002.963	53002.963
5	52579.047	51974.225	50664.676
10	47162.647	45853.098	43017.993
15	37455.787	35581.918	32009.685
20	26266.302	24247.709	21100.470
25	16595.084	14949.644	12548.715
30	9286.184	8152.682	6685.448
35	4897.711	4260.218	3603.014
40	2797.034	2449.315	2118.174
45	1749.314	1511.381	1292.538
50	1121.190	974.439	958.995
55	759.619	686.311	640.140
60	517.555	458.099	423.619

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-38NF.IES

CANDELA TABULATION - (Cont.)

65	293.150	254.371	233.216
70	193.854	173.722	158.552
75	107.367	99.947	76.154
80	29.023	28.027	22.621
85	0.000	0.000	0.000
90	0.000	0.000	0.000
95	0.000	0.000	0.000
100	0.000	0.000	0.000
105	0.000	0.000	0.000
110	0.000	0.000	0.000
115	0.000	0.000	0.000
120	0.000	0.000	0.000
125	0.000	0.000	0.000
130	0.000	0.000	0.000
135	0.000	0.000	0.824
140	0.000	0.000	8.638
145	0.000	3.502	15.515
150	7.371	13.311	22.954
155	6.372	18.007	21.333
160	11.567	20.151	18.982
165	13.457	11.089	13.457
170	10.382	7.101	2.692
175	8.241	2.006	0.000
180	0.297	0.297	0.297

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-38NF.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	13799.01	51.10	52.60
0-30	20569.37	76.20	78.50
0-40	23648.35	87.60	90.20
0-60	25799.42	95.60	98.40
0-80	26186.54	97.00	99.90
0-90	26191.67	97.00	99.90
10-90	21593.62	80.00	82.40
20-40	9849.35	36.50	37.60
20-50	11263.71	41.70	43.00
40-70	2449.27	9.10	9.30
60-80	387.12	1.40	1.50
70-80	88.92	0.30	0.30
80-90	5.12	0.00	0.00
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.26	0.00	0.00
90-150	10.89	0.00	0.00
90-180	22.51	0.10	0.10
110-180	22.51	0.10	0.10
0-180	26214.17	97.10	100.00

Total Luminaire Efficiency = 97.10%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4598.05
10-20	9200.96
20-30	6770.36
30-40	3078.99
40-50	1414.36
50-60	736.71
60-70	298.20
70-80	88.92
80-90	5.12
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.26
130-140	3.13
140-150	7.49
150-160	7.68
160-170	3.65
170-180	0.29

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-38NF.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

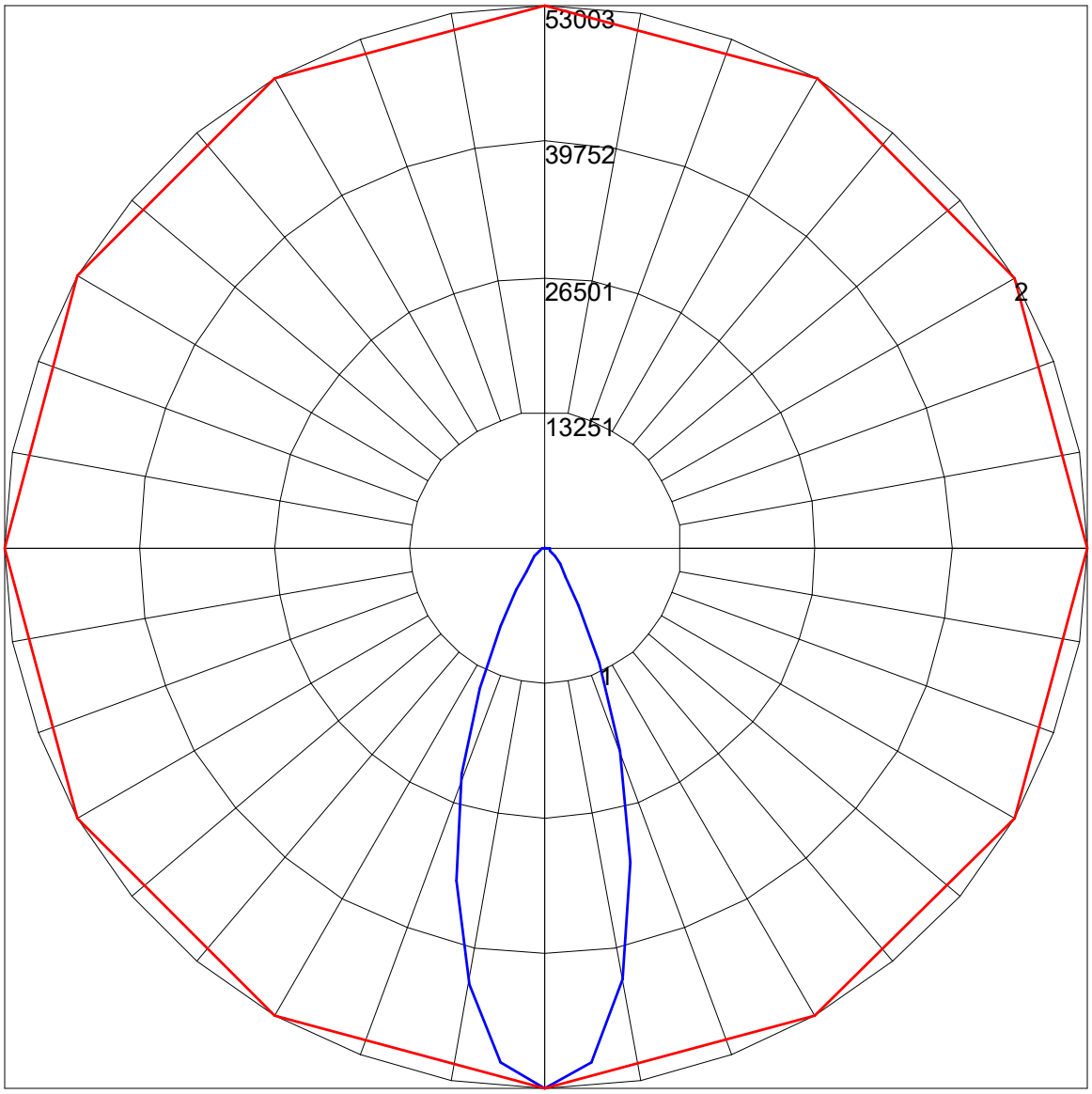
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	116	116	116	116	113	113	113	113	108	108	108	103	103	103	99	99	99	97
1	110	108	106	103	108	106	104	102	102	100	99	98	97	96	95	94	93	91
2	105	101	97	94	103	99	96	93	96	93	91	93	91	89	91	89	87	86
3	100	95	90	86	99	93	89	86	91	87	84	88	85	83	86	84	82	80
4	96	89	84	80	94	88	83	80	86	82	79	84	81	78	82	79	77	76
5	92	84	79	75	90	83	78	75	81	77	74	80	76	73	78	75	73	71
6	88	80	74	70	86	79	74	70	77	73	70	76	72	69	75	71	69	67
7	84	76	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64
8	80	72	67	63	79	71	66	63	70	66	63	69	65	62	69	65	62	61
9	77	69	63	60	76	68	63	60	67	63	60	66	62	59	66	62	59	58
10	74	66	60	57	73	65	60	57	64	60	57	64	60	57	63	59	57	55

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-38NF.IES

POLAR GRAPH



Maximum Candela = 53002.963 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-60F.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 194024
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2019-04-13
[ISSUEDATE] 2019-04-13
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] GAU-LTL-200W-LED-60F
[LUMINAIRE] 200W LED FLOOD LIGHT - 60 DEGREE OPTICS
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
[LAMPPOSITION] 0,0

CHARACTERISTICS



Lumens Per Lamp	27000 (1 lamp)
Total Lamp Lumens	27000
Luminaire Lumens	26343
Total Luminaire Efficiency	98 %
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	200
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.00 ft
Luminous Width (90-270)	1.40 ft
Luminous Height	0.30 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28801	26903	29452
55	12055	11059	12353
65	5498	5322	6186
75	2852	2796	3382
85	1147	924	1333

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-60F.IES

CANDELA TABULATION

	0	30	60	90	120	150	180	210	240	270
0	27289.911	27289.911	27289.911	27289.911	27289.911	27289.911	27289.911	27289.911	27289.911	27289.911
5	27308.811	27014.500	26793.361	26537.392	26381.596	26191.241	27098.203	26918.647	26716.678	26612.185
10	25524.045	25200.033	25038.296	24767.208	24643.813	24362.193	25152.781	25074.479	24937.583	24919.492
15	23182.249	22880.378	22715.670	22428.381	22353.047	22052.255	22737.002	22714.862	22577.155	22620.899
20	20103.864	19826.295	19693.989	19396.168	19369.167	19014.914	19577.344	19632.158	19553.584	19645.118
25	16617.765	16343.705	16241.642	15930.050	15895.219	15558.515	16024.014	16109.337	16080.175	16203.031
30	12632.957	12327.577	12307.865	12029.485	11937.682	11620.420	11964.954	12048.926	12066.207	12281.944
35	8768.575	8533.666	8543.657	8319.548	8251.236	7963.675	8170.772	8257.446	8292.007	8499.374
40	5646.719	5507.394	5524.135	5365.369	5307.316	5078.618	5205.523	5273.025	5289.226	5446.372
45	3446.678	3367.835	3386.465	3292.232	3242.550	3086.484	3159.927	3189.898	3203.129	3309.513
50	2089.796	2029.638	2036.523	1983.142	1949.931	1841.927	1927.223	1911.212	1908.404	1977.121
55	1285.842	1258.841	1250.605	1204.731	1188.611	1128.021	1170.196	1176.839	1164.499	1194.119
60	811.191	788.375	782.138	762.967	740.043	704.105	760.294	741.366	730.107	754.759
65	497.061	537.860	504.460	496.764	479.511	487.260	462.743	513.586	476.082	494.523
70	325.929	389.003	340.024	326.361	324.417	353.740	306.434	376.259	325.875	327.765
75	203.666	225.240	218.822	205.067	204.800	196.084	190.706	210.719	207.081	207.187
80	119.393	126.000	120.157	114.898	111.746	109.340	111.025	119.352	110.612	117.379
85	57.647	54.996	53.140	52.185	49.417	47.138	51.877	52.760	49.004	55.220
90	25.354	24.463	24.846	25.068	25.354	24.622	25.937	26.456	26.002	27.179
95	25.853	26.180	26.658	26.647	27.687	27.082	28.078	28.270	27.506	28.494
100	28.556	29.469	29.639	30.041	30.200	29.320	29.385	30.711	30.870	29.534
105	32.026	32.407	33.425	34.613	33.022	32.747	31.664	33.244	33.722	32.671
110	36.735	37.953	39.502	40.339	38.398	38.101	35.663	37.275	37.963	35.706
115	41.825	44.422	45.907	47.859	45.526	43.320	40.086	41.603	44.360	43.712
120	48.178	51.019	51.402	59.462	53.988	49.250	45.262	45.853	50.362	61.986
125	56.100	56.491	57.042	61.784	57.266	54.021	50.214	50.235	53.300	55.463
130	60.903	62.696	64.001	66.706	64.254	60.914	56.259	54.680	58.360	59.715
135	67.924	68.275	67.576	72.327	69.123	67.648	60.447	59.451	61.743	62.761
140	72.878	73.653	71.140	74.787	71.574	71.437	65.062	64.254	63.374	65.391
145	77.671	76.346	75.168	76.643	76.399	76.048	68.583	66.738	66.906	67.829
150	80.131	78.605	77.873	77.522	78.595	77.936	71.307	69.941	71.615	69.717
155	80.652	80.471	79.464	80.387	79.793	79.432	72.400	72.219	73.248	71.604
160	81.119	80.906	78.964	80.152	79.507	80.015	73.407	73.832	73.386	74.226
165	79.518	81.945	77.450	80.409	77.895	79.856	75.954	74.607	73.567	73.791
170	78.530	79.783	78.743	80.185	78.508	79.083	76.399	75.900	76.548	76.780
175	78.678	78.638	77.714	79.040	77.787	77.109	77.768	76.048	75.392	77.163
180	76.899	76.899	76.899	76.899	76.899	76.899	76.899	76.899	76.899	76.899

Vert. Angles	**Horizontal Angles**		
	300	**330**	**360**
0	27289.911	27289.911	27289.911
5	26476.640	26378.358	27308.811
10	24805.009	24701.055	25524.045
15	22527.744	22437.020	23182.249
20	19567.625	19487.701	20103.864
25	16118.518	16090.165	16617.765
30	12166.110	12196.082	12632.957
35	8425.662	8462.113	8768.575
40	5401.280	5432.332	5646.719
45	3274.951	3306.272	3446.678
50	1952.010	1968.670	2089.796
55	1178.999	1202.760	1285.842
60	735.777	747.496	811.191

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CANDELA TABULATION - (Cont.)

65	482.670	507.322	497.061
70	327.711	374.153	325.929
75	209.744	213.106	203.666
80	114.684	123.975	119.393
85	50.670	57.150	57.647
90	24.760	25.597	25.354
95	26.234	26.075	25.853
100	29.947	28.059	28.556
105	31.124	31.208	32.026
110	36.427	35.112	36.735
115	41.549	37.656	41.825
120	47.711	43.650	48.178
125	52.960	48.080	56.100
130	56.727	52.409	60.903
135	59.451	56.386	67.924
140	62.802	61.011	72.878
145	65.728	64.308	77.671
150	69.303	66.282	80.131
155	71.021	68.391	80.652
160	73.078	70.408	81.119
165	73.556	72.476	79.518
170	74.490	73.473	78.530
175	74.172	72.814	78.678
180	76.899	76.899	76.899

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-60F.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8787.6	32.50	33.40
0-30	16101.94	59.60	61.10
0-40	21415.14	79.30	81.30
0-60	25214.17	93.40	95.70
0-80	25960.11	96.10	98.50
0-90	26027.45	96.40	98.80
10-90	23535.04	87.20	89.30
20-40	12627.55	46.80	47.90
20-50	15286.46	56.60	58.00
40-70	4314.67	16.00	16.40
60-80	745.94	2.80	2.80
70-80	230.30	0.90	0.90
80-90	67.34	0.20	0.30
90-110	64.78	0.20	0.20
90-120	108.00	0.40	0.40
90-130	157.12	0.60	0.60
90-150	251.50	0.90	1.00
90-180	315.58	1.20	1.20
110-180	250.79	0.90	1.00
0-180	26343.02	97.60	100.00

Total Luminaire Efficiency = 97.60%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2492.41
10-20	6295.19
20-30	7314.35
30-40	5313.2
40-50	2658.91
50-60	1140.11
60-70	515.64
70-80	230.30
80-90	67.34
90-100	29.79
100-110	34.99
110-120	43.21
120-130	49.13
130-140	49.64
140-150	44.74
150-160	34.94
160-170	21.78
170-180	7.36

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-60F.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

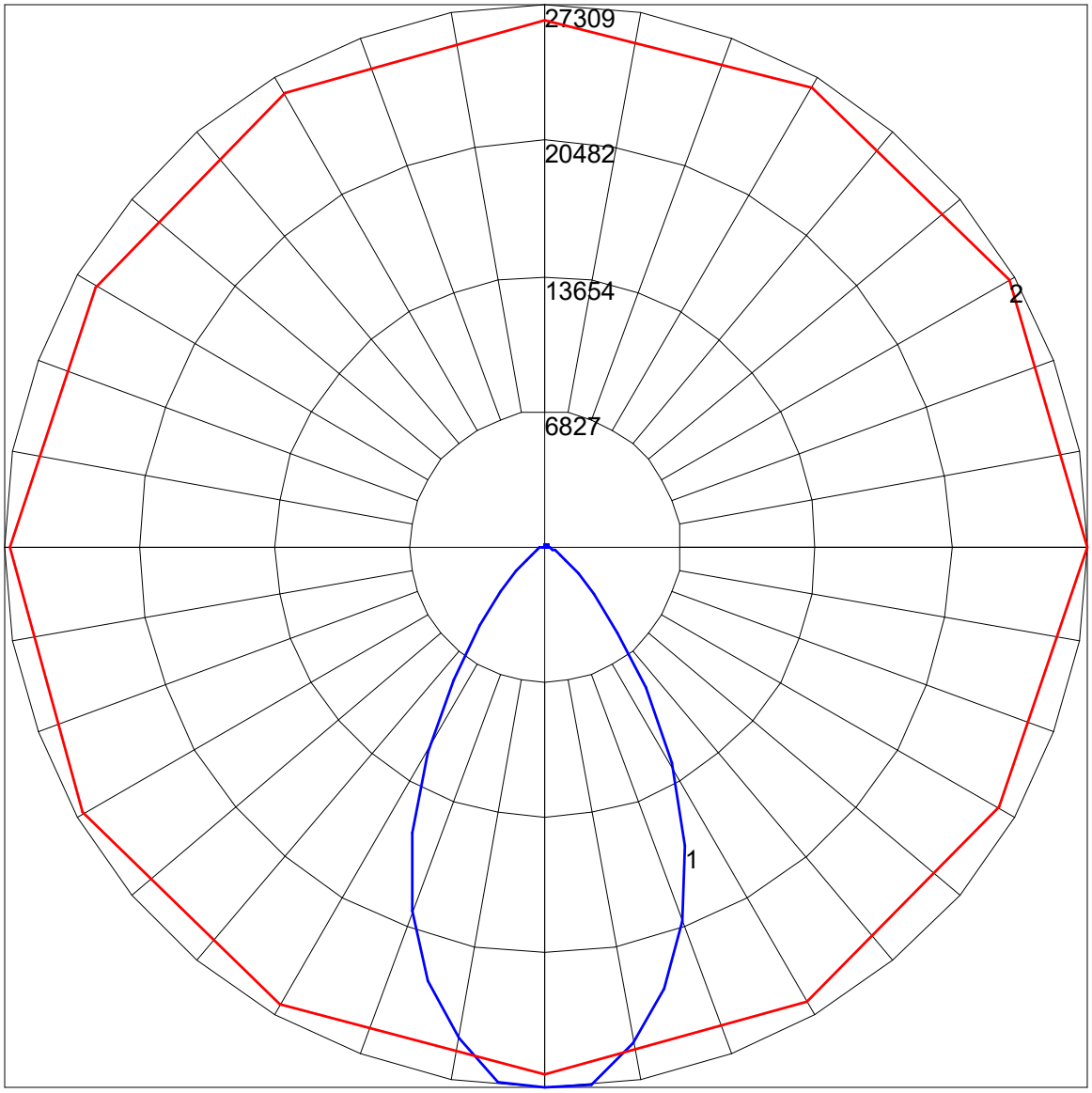
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	116	116	116	116	113	113	113	113	108	108	108	103	103	103	98	98	98	96
1	110	107	104	102	107	104	102	100	100	98	97	96	95	93	93	92	91	89
2	103	98	94	90	101	96	92	89	93	90	87	90	87	85	87	85	83	81
3	98	91	85	81	95	89	84	80	86	82	79	84	80	77	81	78	76	74
4	92	84	78	73	90	83	77	73	80	76	72	78	74	71	76	73	70	68
5	87	78	72	67	85	77	71	67	75	70	66	73	69	65	71	68	64	63
6	82	73	66	62	80	72	66	61	70	65	61	69	64	60	67	63	60	58
7	78	68	61	57	76	67	61	57	66	60	56	64	60	56	63	59	56	54
8	74	64	57	53	72	63	57	53	62	56	52	61	56	52	59	55	52	50
9	70	60	54	49	69	59	53	49	58	53	49	57	52	49	56	52	48	47
10	66	56	50	46	65	56	50	46	55	50	46	54	49	46	53	49	45	44

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-60F.IES

POLAR GRAPH



Maximum Candela = 27308.811 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-90WF.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 194025
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2019-04-13
[ISSUEDATE] 2019-04-13
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] GAU-LTL-200W-LED-90WF
[LUMINAIRE] 200W LED FLOOD LIGHT - 90 DEGREE OPTICS
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
[LAMPPOSITION] 0,0

CHARACTERISTICS



Lumens Per Lamp	27000 (1 lamp)
Total Lamp Lumens	27000
Luminaire Lumens	26351
Total Luminaire Efficiency	98 %
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	200
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.12
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.00 ft
Luminous Width (90-270)	1.40 ft
Luminous Height	0.30 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	51510	48558	54380
55	20535	19389	22461
65	7392	7068	8234
75	3008	2906	3629
85	566	485	752

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-200W-LED-90WF.IES

CANDELA TABULATION

	0	30	60	90	120	150	180	210	240	270
0	17242.29	817242.29	817242.29	817242.29	817242.29	817242.29	817242.29	817242.29	817242.29	817242.298
5	17333.29	217126.19	516976.60	816811.90	316710.91	916605.88	617348.68	317157.24	516965.53	816815.144
10	16507.06	116336.68	416233.27	216092.86	715995.66	215864.97	816553.77	316385.01	616202.21	916065.324
15	15613.86	915455.64	215356.00	715239.36	415154.58	215051.97	815700.00	215516.39	415368.96	915219.114
20	14727.42	614577.84	014494.13	714384.24	214314.58	014230.87	714819.49	914649.93	314497.64	614364.261
25	13489.15	913364.95	513333.36	413231.30	013165.95	713066.05	413590.95	313472.95	913320.40	313191.339
30	11962.79	311870.45	011868.83	011789.71	711723.29	411619.88	012083.75	712007.07	511872.07	011748.404
35	10398.35	410329.77	310337.60	210233.37	910238.77	910131.31	610503.92	910466.12	710316.54	210193.687
40	8386.511	8318.468	8370.850	8278.776	8322.249	8197.773	8518.545	8497.755	8347.900	8251.236
45	6164.328	6056.594	6134.627	6078.735	6114.646	5996.652	6299.603	6259.372	6134.358	6074.415
50	4008.029	3899.754	3975.628	3950.246	3964.557	3890.574	4135.473	4106.312	4006.678	3984.808
55	2190.375	2156.003	2243.432	2190.483	2216.674	2157.893	2292.898	2325.866	2274.537	2217.052
60	1167.901	1172.356	1189.934	1161.988	1174.706	1157.371	1222.200	1267.508	1215.342	1180.187
65	668.329	713.987	670.246	661.227	669.733	694.115	701.891	754.408	687.796	675.025
70	386.546	453.779	402.693	397.401	400.425	442.924	405.690	491.877	415.140	403.854
75	214.820	226.984	234.682	220.093	232.384	221.079	225.016	242.993	241.138	227.181
80	101.589	106.092	107.056	103.033	106.905	102.288	108.171	116.026	108.611	111.474
85	28.446	28.864	27.903	29.434	28.381	28.032	33.873	33.895	27.746	33.568
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	2.573	1.326	3.032	3.337	3.907	1.347	1.960	1.520	0.626	1.566
100	4.957	4.736	4.101	5.524	6.270	3.426	3.469	5.635	3.426	2.527
105	9.548	11.781	11.014	12.677	9.920	8.759	8.586	8.389	7.714	9.680
110	16.460	15.609	18.499	18.912	16.919	14.405	11.586	13.860	17.032	14.054
115	22.214	26.591	25.475	26.193	22.586	22.389	17.337	21.952	22.476	23.505
120	26.785	27.309	29.628	34.221	27.638	27.330	22.038	26.960	27.617	29.671
125	31.270	31.335	35.358	39.929	34.618	27.768	25.257	27.026	33.611	33.460
130	34.594	36.541	42.183	44.177	38.706	32.277	30.022	31.575	37.483	36.627
135	39.297	41.133	47.017	45.923	43.887	36.889	33.568	34.769	39.951	40.258
140	43.148	45.467	48.702	48.046	48.132	42.292	36.800	37.240	43.385	43.844
145	48.046	47.279	50.538	51.086	52.269	45.837	42.842	40.850	46.844	42.842
150	50.516	48.394	53.449	55.698	56.575	48.920	43.539	44.349	48.726	49.949
155	53.470	55.263	55.503	58.716	59.200	53.206	47.389	48.178	53.778	53.098
160	56.116	58.066	57.693	61.384	59.443	61.014	49.774	55.242	57.167	52.638
165	58.760	62.831	60.712	62.372	60.777	62.329	55.460	56.597	55.503	53.950
170	61.605	62.261	64.122	66.441	66.241	59.310	56.575	59.378	63.074	60.182
175	62.175	62.767	60.334	63.857	61.190	59.003	60.601	60.949	61.233	60.515
180	60.655	60.655	60.655	60.655	60.655	60.655	60.655	60.655	60.655	60.655

Vert. Angles	**Horizontal Angles**		
	300	**330**	**360**
0	17242.29	817242.29	817242.298
5	16672.03	816573.21	417333.292
10	15879.55	715771.28	416507.061
15	15039.01	714923.72	315613.869
20	14185.51	614075.08	214727.426
25	12994.50	112895.67	813489.159
30	11541.30	711444.64	311962.793
35	10052.74	29969.310	10398.354
40	8094.089	8024.157	8386.511
45	5908.359	5843.286	6164.328
50	3799.851	3771.230	4008.029
55	2111.100	2079.239	2190.375
60	1123.215	1120.514	1167.901

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CANDELA TABULATION - (Cont.)

65	640.788	671.353	668.329
70	385.358	424.402	386.546
75	222.126	214.212	214.820
80	102.244	100.735	101.589
85	27.047	28.251	28.446
90	0.000	0.000	0.000
95	0.999	1.412	2.573
100	3.929	4.301	4.957
105	11.473	10.209	9.548
110	15.388	12.677	16.460
115	21.055	19.149	22.214
120	24.620	24.468	26.785
125	30.897	27.222	31.270
130	37.874	30.657	34.594
135	39.756	33.060	39.297
140	41.133	36.038	43.148
145	43.496	39.033	48.046
150	47.257	41.349	50.516
155	49.927	46.822	53.470
160	52.044	50.103	56.116
165	54.782	55.698	58.760
170	58.066	56.335	61.605
175	59.267	56.905	62.175
180	60.655	60.655	60.655

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5909.66	21.90	22.40
0-30	11985.83	44.40	45.50
0-40	18331.54	67.90	69.60
0-60	25148.04	93.10	95.40
0-80	26137.54	96.80	99.20
0-90	26182.56	97.00	99.40
10-90	24590.65	91.10	93.30
20-40	12421.88	46.00	47.10
20-50	17116.25	63.40	65.00
40-70	7548.44	28.00	28.60
60-80	989.51	3.70	3.80
70-80	257.56	1.00	1.00
80-90	45.01	0.20	0.20
90-110	12.74	0.00	0.00
90-120	34.51	0.10	0.10
90-130	62.79	0.20	0.20
90-150	122.15	0.50	0.50
90-180	168.77	0.60	0.60
110-180	156.03	0.60	0.60
0-180	26351.33	97.60	100.00

Total Luminaire Efficiency = 97.60%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1591.91
10-20	4317.76
20-30	6076.16
30-40	6345.72
40-50	4694.37
50-60	2122.13
60-70	731.95
70-80	257.56
80-90	45.01
90-100	2.26
100-110	10.48
110-120	21.77
120-130	28.29
130-140	30.56
140-150	28.80
150-160	24.31
160-170	16.50
170-180	5.81

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

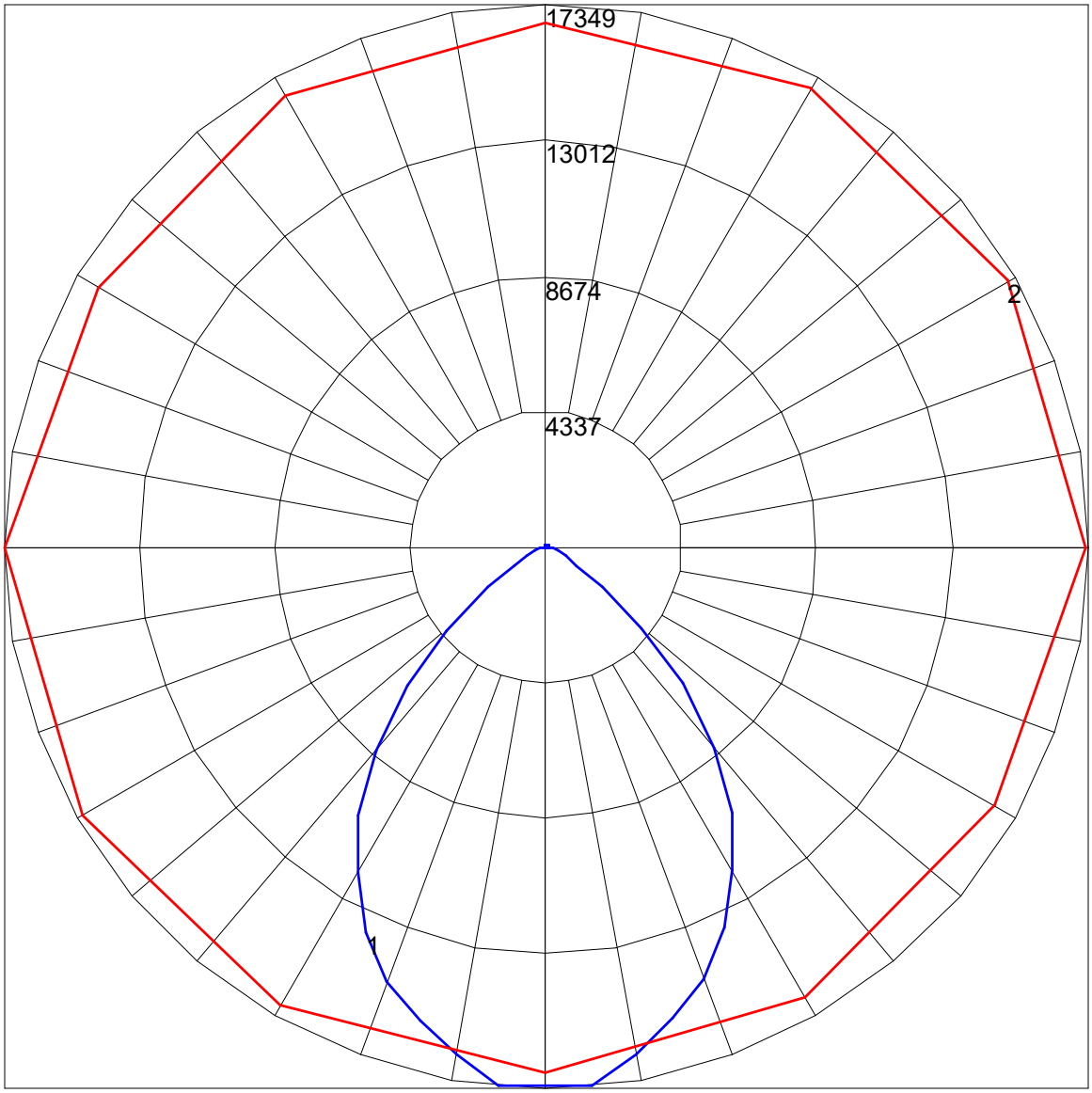
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	116	116	116	116	113	113	113	113	108	108	108	103	103	103	99	99	99	97
1	109	106	103	100	107	104	101	98	99	97	95	96	94	92	92	91	90	88
2	102	96	91	87	100	94	90	86	91	87	84	88	85	82	85	82	80	78
3	95	87	81	76	93	86	80	76	83	78	74	80	76	73	78	75	72	70
4	89	80	73	68	87	78	72	67	76	71	66	74	69	65	72	68	65	63
5	83	73	66	61	81	72	65	60	70	64	60	68	63	59	66	62	58	57
6	78	67	60	55	76	66	59	54	64	58	54	63	57	53	61	57	53	51
7	73	62	54	49	71	61	54	49	59	53	49	58	53	49	57	52	48	47
8	68	57	50	45	67	56	50	45	55	49	45	54	48	44	53	48	44	43
9	64	53	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39
10	60	49	43	38	59	49	42	38	48	42	38	47	41	38	46	41	37	36

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POLAR GRAPH



Maximum Candela = 17348.683 Located At Horizontal Angle = 180, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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