IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-10SP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 194016
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2019-04-12
[ISSUEDATE] 2019-04-12
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] GAU-LTL-150W-LED-10SP
[LUMINAIRE] 150W LED FLOOD LIGHT - 10 DEGREE OPTICS
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
[LAMPPOSITION] 0,0

CHARACTERISTICS

Lumens Per Lamp	21600 (1 lamp)
Total Lamp Lumens	21600
Luminaire Lumens	21676
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	150
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)	1.20 ft
Luminous Height	0.30 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6639	4325	4057
55	1028	72	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	177563.155	177563.155	177563.155	177563.155	177563.155	177563.155	177563.155	177563.155	177563.155	177563.155
1	174161.836	173851.622	172683.989	172642.037	173634.723	174665.111	175561.272	176620.874	177892.544	177941.268
2	167361.894	166401.300	164312.310	163412.919	164028.844	166253.999	169308.432	172318.607	174230.507	174061.768
3	158627.594	156508.516	154003.474	152676.750	153019.873	156137.656	161073.881	165521.386	167325.911	166939.137
4	146317.962	143492.771	140783.412	139122.816	139294.798	143138.481	149057.339	154718.245	157227.643	156745.902
5	132793.266	130066.806	127239.943	125222.342	125318.382	130107.705	135899.125	142071.614	145897.501	145623.905
6	118050.434	115647.521	112712.943	110961.138	110916.019	116444.345	121591.241	127269.898	132035.527	132178.361
7	101191.459	99466.697	96860.807	95883.241	95489.568	100278.442	104636.895	108899.571	113842.907	114257.533
8	85903.252	84620.856	82902.087	82227.065	81861.218	85004.058	88304.597	91129.164	95545.099	95726.791
9	72363.259	70652.316	69911.784	69039.185	68836.792	70914.533	72934.012	74343.385	77947.402	77833.114
10	60300.734	57698.699	57486.140	56325.589	55835.410	57513.370	59098.982	59514.844	62296.173	62580.300
11	50958.820	48167.797	47659.484	46742.344	45516.548	47190.826	49096.193	49780.380	51886.864	52859.036
12	42033.516	39896.539	38727.224	38158.751	36301.594	38461.677	40478.085	41852.767	43333.183	44553.535
13	35165.993	33847.819	32260.117	31678.910	30016.991	32572.485	34344.970	35870.269	36697.533	37922.777
14	29514.147	28630.379	27031.095	26351.016	25396.234	27850.769	29081.842	30618.553	30902.770	31886.510
15	24529.038	23579.650	22544.297	21636.684	21180.126	23168.467	23899.999	25548.014	25674.455	26062.977
16	20846.225	19743.304	19450.790	18438.523	17953.621	19448.769	20121.747	21607.560	21758.383	21918.508
17	17650.811	16765.631	16790.661	16103.716	15520.770	16574.570	17322.489	18389.981	18502.790	18775.010
18	14641.571	14294.147	14072.217	13889.006	13344.795	14033.674	14777.091	15414.893	15467.147	15951.859
19	12418.283	12467.773	12033.513	12005.971	11651.654	11956.249	12640.719	13044.939	13199.292	13805.886
20	10480.941	10670.726	10331.134	10332.331	10233.984	10169.331	10603.753	10981.854	11177.985	11857.105
21	9074.436	9166.406	9060.236	9126.388	9065.597	8919.010	9065.650	9474.995	9433.036	10136.551
22	8049.934	7934.924	8024.149	7997.919	7977.239	7776.614	7851.878	8153.182	7796.267	8510.895
23	7228.100	6843.878	7080.337	6852.149	7006.814	6629.149	6734.040	6749.928	6277.801	7037.940
24	6506.071	6018.884	6328.888	5996.917	6172.621	5658.097	5718.094	5581.850	5269.871	5964.383
25	5845.898	5443.412	5624.599	5287.225	5369.786	4813.266	4785.737	4686.294	4599.684	5098.271
26	5258.210	5002.961	4860.858	4681.412	4709.519	4157.632	4036.894	3888.244	3964.299	4392.928
27	4730.781	4589.695	4264.782	4293.059	4268.993	3694.744	3585.929	3220.643	3346.336	3810.009
28	4147.264	4068.434	3773.205	3907.635	3779.213	3250.655	3212.913	2635.494	2739.320	3107.946
29	3671.043	3605.386	3409.746	3494.883	3351.600	2963.523	2915.453	2275.488	2343.551	2558.226
30	3281.604	3230.666	3071.464	3107.365	2966.455	2712.044	2597.971	2026.853	2064.488	2199.094
31	2912.715	2877.124	2765.587	2791.222	2548.655	2395.456	2219.263	1793.990	1741.473	1951.234
32	2556.225	2505.357	2529.354	2550.167	2250.129	2106.277	1938.602	1575.848	1399.140	1716.655
33	2203.607	2146.857	2256.862	2265.808	2091.931	1869.779	1724.561	1315.080	1114.438	1444.033
34	1893.333	1919.846	1970.392	1895.477	1972.223	1709.404	1522.408	1018.378	897.211	1145.564
35	1734.185	1831.193	1811.127	1586.107	1803.983	1591.687	1350.532	817.816	713.086	889.079
36	1635.952	1713.073	1679.549	1389.809	1578.211	1414.530	1123.411	677.654	527.289	671.974
37	1513.409	1547.342	1506.579	1335.734	1407.106	1193.700	906.453	550.927	398.850	510.098
38	1381.059	1397.635	1335.584	1296.546	1253.691	967.905	727.007	397.657	286.191	357.473
39	1262.799	1282.719	1179.267	1201.353	1103.366	778.573	544.809	234.325	164.405	211.050
40	1166.656	1200.250	1054.192	1083.031	978.214	623.060	373.072	123.596	73.941	102.268
41	1091.249	1127.239	963.891	955.393	843.551	478.481	230.640	66.102	22.452	33.990
42	1009.133	1011.841	862.869	816.401	720.154	399.498	133.254	38.373	3.440	5.875
43	892.322	879.236	737.730	691.133	634.269	353.382	72.781	18.693	0.332	0.658
44	759.697	748.428	583.806	545.011	522.065	248.123	25.502	4.795	0.013	0.030
45	680.970	639.776	473.948	421.535	400.150	144.117	5.752	0.731	0.000	0.000
46	602.752	563.103	419.607	333.520	275.237	71.671	0.728	0.060	0.000	0.000
47	474.035	521.051	369.573	269.219	158.756	23.761	0.037	0.003	0.000	0.000
48	364.897	461.470	304.854	205.198	88.028	5.207	0.000	0.000	0.000	0.000
49	313.534	368.440	238.287	131.011	42.178	0.512	0.000	0.000	0.000	0.000
50	285.852	281.957	174.707	85.027	16.360	0.033	0.000	0.000	0.000	0.000
51	238.167	197.900	109.533	53.793	3.978	0.000	0.000	0.000	0.000	0.000
52	190.097	123.364	62.466	22.565	0.439	0.000	0.000	0.000	0.000	0.000
53	168.991	81.445	39.699	5.733	0.030	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

54	145.363	63.536	21.671	0.771	0.000	0.000	0.000	0.000	0.000	0.000
55	93.960	53.922	7.201	0.040	0.000	0.000	0.000	0.000	0.000	0.000
56	46.425	36.848	1.539	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57	15.945	18.085	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000
58	4.181	8.833	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
59	0.668	3.499	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.047	0.695	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
61	0.003	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62	0.000	0.003	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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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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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-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	177563.155	177563.155	177563.155	177563.155	177563.155	177563.155	177563.155
1	177785.390	177198.035	176721.056	175721.892	175072.227	174640.852	174161.836
2	173766.787	172337.432	170834.934	169017.233	168187.856	168075.917	167361.894
3	166818.172	164983.337	162951.124	160684.156	159440.276	159500.206	158627.594
4	156284.887	154018.631	151897.393	149374.987	147601.286	147401.163	146317.962
5	144288.255	142160.483	140112.940	137430.845	134975.804	134291.817	132793.266
6	130585.804	128979.080	127220.263	124456.387	121043.438	119864.110	118050.434
7	113404.514	112218.228	111547.819	108770.760	104574.074	103416.214	101191.455
8	96164.447	95498.560	96147.309	93541.535	89244.009	88632.371	85903.252
9	79874.845	79687.522	81147.713	79163.537	75369.459	75082.494	72363.259
10	65329.726	65303.719	66876.005	65598.643	62822.711	62359.051	60300.734
11	54787.499	54941.978	55971.884	54752.293	52922.509	52285.877	50958.820
12	45335.208	45620.199	45589.011	44484.691	43189.886	42590.315	42033.516
13	38395.396	38052.186	37521.092	36972.172	35896.117	35208.976	35165.993
14	32753.290	31361.454	31236.190	31020.607	30323.117	29542.348	29514.147
15	27316.731	25561.347	26244.510	25756.638	25192.611	24717.507	24529.038
16	22838.812	21802.209	22823.914	22034.338	21063.229	20998.307	20846.225
17	19043.176	19015.417	19935.033	19131.726	17969.629	17846.266	17650.811
18	15887.518	16488.556	17105.059	16510.861	15728.174	14989.663	14641.571
19	13737.886	14479.156	14904.904	14531.849	13912.427	12841.397	12418.283
20	11788.849	12479.809	13142.901	12788.086	11846.264	10955.697	10480.941
21	10300.664	10759.129	11947.838	11332.408	10270.975	9593.128	9074.436
22	9047.698	9296.426	10746.890	9887.763	9060.562	8454.520	8049.934
23	7796.739	8055.025	9224.286	8495.442	7874.582	7397.919	7228.100
24	6734.701	7058.719	7853.562	7405.130	6915.426	6580.757	6506.071
25	5768.773	6176.862	6730.131	6424.666	6215.594	5890.674	5845.898
26	4865.301	5365.263	5796.060	5545.693	5637.463	5278.780	5258.210
27	4166.821	4653.500	5135.278	4885.865	5089.983	4819.262	4730.781
28	3492.603	3913.390	4539.299	4243.670	4429.410	4322.157	4147.264
29	2944.176	3318.425	4024.369	3681.554	3816.978	3812.375	3671.043
30	2435.504	2812.039	3494.534	3213.179	3292.666	3259.115	3281.604
31	1977.842	2355.182	2962.217	2893.490	2878.097	2757.389	2912.715
32	1678.173	2053.462	2571.549	2633.516	2587.925	2492.683	2556.225
33	1467.422	1849.956	2292.593	2287.658	2380.046	2298.501	2203.607
34	1324.418	1644.898	2056.243	1926.738	2209.988	2040.255	1893.333
35	1211.154	1434.041	1853.601	1681.928	1970.216	1820.791	1734.185
36	1012.832	1195.299	1607.698	1457.612	1641.867	1637.573	1635.952

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CANDELA TABULATION - (Cont.)

37	777.785	972.438	1337.226	1261.726	1398.064	1492.310	1513.409
38	568.237	737.318	1068.123	1073.796	1195.259	1355.344	1381.059
39	381.158	490.863	798.322	897.065	956.573	1219.093	1262.799
40	238.606	345.237	584.375	776.090	763.665	1114.023	1166.656
41	132.599	278.880	413.738	644.498	659.001	1004.022	1091.249
42	63.031	208.464	258.821	461.001	594.840	842.066	1009.133
43	27.028	121.147	139.664	309.583	508.104	674.091	892.322
44	7.098	42.597	48.721	203.589	369.703	519.094	759.697
45	1.213	9.574	11.133	139.558	246.841	422.468	680.970
46	0.113	1.183	1.416	78.906	167.007	344.430	602.752
47	0.003	0.056	0.073	30.607	117.535	257.787	474.035
48	0.000	0.003	0.003	10.621	84.363	190.924	364.897
49	0.000	0.000	0.000	2.592	50.572	129.655	313.534
50	0.000	0.000	0.000	0.435	23.877	80.524	285.852
51	0.000	0.000	0.000	0.040	7.431	49.589	238.167
52	0.000	0.000	0.000	0.000	1.133	41.630	190.097
53	0.000	0.000	0.000	0.000	0.106	42.068	168.991
54	0.000	0.000	0.000	0.000	0.007	33.192	145.363
55	0.000	0.000	0.000	0.000	0.000	14.815	93.960
56	0.000	0.000	0.000	0.000	0.000	3.818	46.425
57	0.000	0.000	0.000	0.000	0.000	0.419	15.945
58	0.000	0.000	0.000	0.000	0.000	0.027	4.181
59	0.000	0.000	0.000	0.000	0.000	0.000	0.668
60	0.000	0.000	0.000	0.000	0.000	0.000	0.047
61	0.000	0.000	0.000	0.000	0.000	0.000	0.003
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	17795.12	82.40	82.10
0-30	20489.59	94.90	94.50
0-40	21453.94	99.30	99.00
0-60	21676.16	100.40	100.00
0-80	21676.17	100.40	100.00
0-90	21676.17	100.40	100.00
10-90	11249.58	52.10	51.90
20-40	3658.83	16.90	16.90
20-50	3867.56	17.90	17.80
40-70	222.22	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	21676.17	100.40	100.00

Total Luminaire Efficiency = 100.40%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	10426.58
10-20	7368.53
20-30	2694.47
30-40	964.36
40-50	208.73
50-60	13.49
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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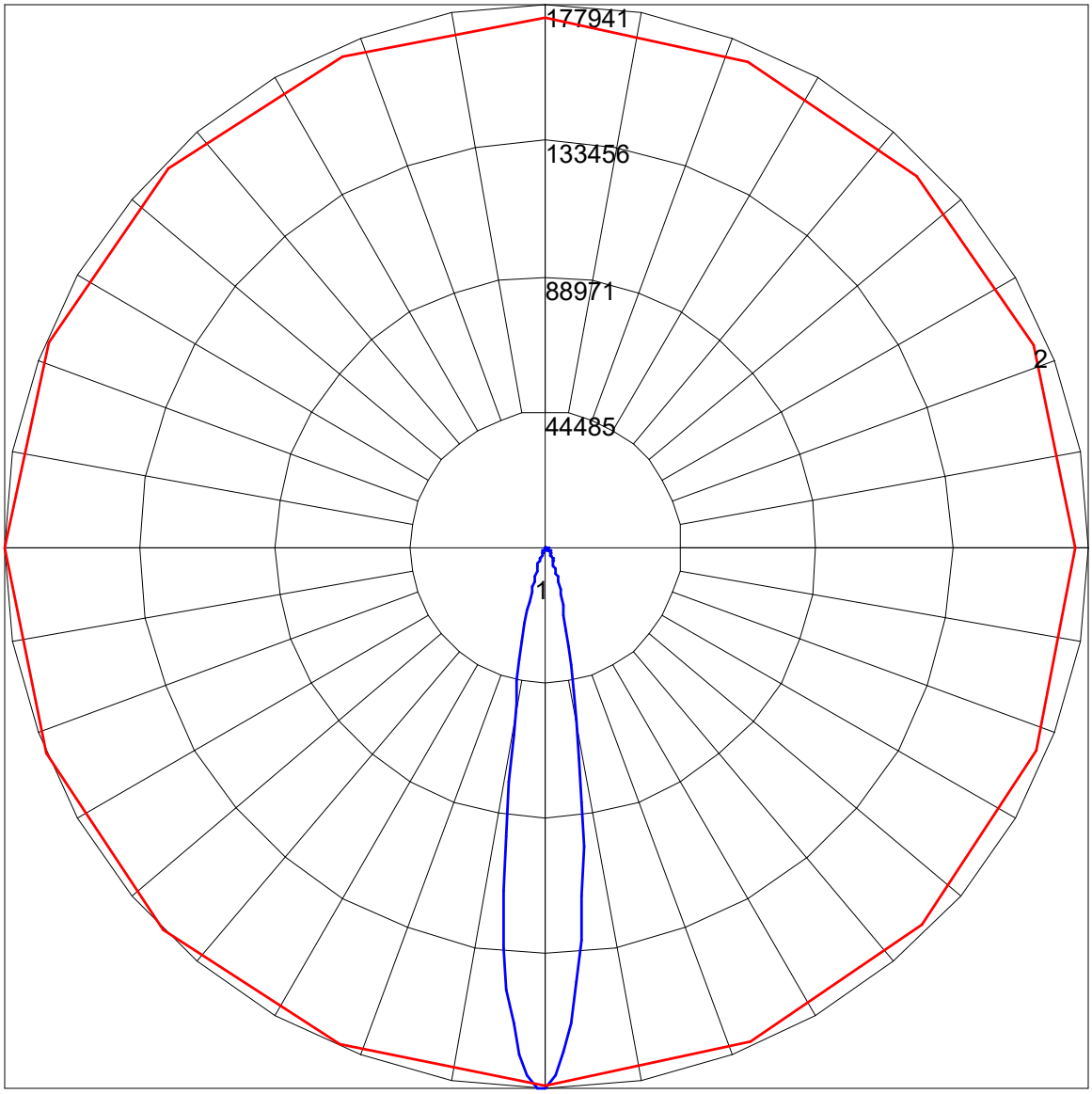
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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-150W-LED-10SP.IES

POLAR GRAPH



Maximum Candela = 177941.268 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-150W-LED-24WS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 194017
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2019-04-12
[ISSUEDATE] 2019-04-12
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] GAU-LTL-150W-LED-24WS
[LUMINAIRE] 150W LED FLOOD LIGHT - 24 DEGREE OPTICS
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
[LAMPPOSITION] 0,0

CHARACTERISTICS

Lumens Per Lamp	21600 (1 lamp)
Total Lamp Lumens	21600
Luminaire Lumens	20599
Total Luminaire Efficiency	95 %
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	150
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)	1.20 ft
Luminous Height	0.30 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17602	16181	17215
55	9671	8074	8603
65	4608	4389	4838
75	2515	2348	2720
85	1022	777	1099

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-24WS.IES

CANDELA TABULATION

	0	30	60	90	120	150	180	210	240	270
0	71971.707	71971.707	71971.707	71971.707	71971.707	71971.707	71971.707	71971.707	71971.707	71971.707
5	66845.837	65448.265	64834.802	63225.542	62534.317	61030.901	62929.612	63188.821	62815.127	63603.556
10	45934.102	44778.459	44715.817	42780.388	41827.790	39602.907	40466.939	41609.622	41877.472	43354.966
15	25011.567	24415.388	24581.711	23268.382	22488.593	20916.270	21356.928	22246.664	22685.160	23814.882
20	12926.999	12704.943	12799.554	12099.904	11632.680	10811.632	11057.017	11468.730	11743.490	12316.561
25	7259.165	7217.476	7252.037	6915.281	6670.975	6267.905	6455.183	6603.581	6718.497	6951.138
30	4685.214	4653.460	4687.158	4521.696	4346.081	4136.121	4287.975	4330.960	4401.811	4538.544
35	3369.941	3322.635	3344.668	3248.328	3123.908	2992.143	3121.964	3127.796	3174.454	3267.553
40	2561.639	2520.813	2530.750	2452.771	2366.584	2254.476	2354.271	2350.599	2370.472	2434.410
45	1805.568	1774.333	1772.238	1697.953	1644.145	1560.636	1620.254	1640.883	1659.460	1708.407
50	1234.075	1206.902	1196.792	1141.451	1100.906	1047.056	1100.086	1112.808	1123.069	1159.920
55	884.142	811.564	795.989	747.215	728.163	692.176	770.911	744.472	749.893	767.649
60	559.634	540.538	523.560	496.775	476.125	463.769	476.384	498.806	498.136	513.753
65	357.148	400.608	358.616	350.495	327.835	342.999	313.989	373.651	341.962	363.261
70	239.596	298.501	252.967	238.451	233.569	273.963	213.470	292.799	243.830	249.187
75	153.981	168.936	163.479	151.830	151.700	151.830	138.664	165.741	159.671	160.118
80	92.361	93.758	91.849	87.706	84.893	84.196	82.865	94.624	90.620	95.732
85	44.038	41.728	40.536	41.216	38.516	37.184	39.521	43.627	43.824	47.528
90	15.890	17.968	17.847	17.985	18.264	16.877	19.009	20.089	21.264	22.789
95	16.663	18.153	18.114	18.972	18.190	18.061	19.372	19.903	21.236	21.579
100	18.972	19.549	20.266	20.620	19.633	19.670	21.264	22.893	22.761	21.998
105	21.124	22.817	22.398	22.910	22.530	22.091	25.202	24.746	24.586	24.968
110	24.139	26.170	26.774	26.226	27.705	25.331	27.733	27.640	29.112	26.589
115	27.649	29.196	34.996	32.995	34.680	29.215	31.634	30.844	34.103	32.323
120	33.347	34.652	37.901	38.303	37.437	32.697	33.673	31.952	35.136	35.211
125	39.391	40.620	43.748	45.183	43.526	40.387	35.954	35.518	38.739	38.981
130	48.088	48.535	52.529	52.557	53.237	47.716	40.294	38.562	43.478	43.953
135	57.063	57.091	58.815	60.435	59.251	56.588	46.105	44.642	47.742	49.354
140	66.477	65.695	65.472	66.580	64.764	65.090	54.987	52.929	53.898	52.315
145	73.348	72.101	70.090	68.645	70.229	70.900	61.785	59.102	60.266	57.454
150	76.208	74.410	72.631	69.615	72.521	73.117	67.045	65.107	63.945	59.540
155	75.302	72.799	70.788	67.874	70.675	71.067	67.818	65.509	64.131	60.098
160	70.620	68.918	64.651	62.539	64.474	67.286	64.550	63.478	61.402	57.231
165	63.219	63.413	57.836	57.128	57.091	60.573	59.754	58.843	55.238	52.743
170	54.391	54.093	52.687	52.138	51.432	52.110	52.296	52.166	51.001	48.833
175	47.967	47.919	47.688	47.472	46.960	46.541	47.500	46.673	46.653	47.334
180	45.087	45.087	45.087	45.087	45.087	45.087	45.087	45.087	45.087	45.087

Vert. Angles	**Horizontal Angles**		
	300	**330**	**360**
0	71971.707	71971.707	71971.707
5	63443.711	64070.134	66845.837
10	43050.395	43782.662	45934.102
15	23505.991	23773.841	25011.567
20	12108.112	12228.861	12926.999
25	6845.078	6874.886	7259.165
30	4437.884	4452.141	4685.214
35	3199.727	3209.663	3369.941
40	2410.649	2425.986	2561.639
45	1698.406	1712.814	1805.568
50	1153.288	1165.558	1234.075
55	769.809	779.508	884.142
60	505.977	521.487	559.634

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-24WS.IES

CANDELA TABULATION - (Cont.)

65	349.004	376.869	357.148
70	250.504	298.739	239.596
75	163.116	173.517	153.981
80	93.114	99.223	92.361
85	45.146	46.645	44.038
90	21.039	20.136	15.890
95	20.935	19.577	16.663
100	21.113	20.648	18.972
105	23.450	23.208	21.124
110	28.487	26.152	24.139
115	33.200	29.148	27.649
120	35.127	31.598	33.347
125	37.808	33.395	39.391
130	42.139	37.203	48.088
135	45.871	42.342	57.063
140	51.542	49.055	66.477
145	58.098	56.216	73.348
150	61.813	62.277	76.208
155	62.269	63.329	75.302
160	59.745	63.042	70.620
165	52.771	57.184	63.219
170	49.297	49.978	54.391
175	46.122	44.690	47.967
180	45.087	45.087	45.087

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PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-24WS.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	12242.89	56.70	59.40
0-30	15646.62	72.40	76.00
0-40	17714.36	82.00	86.00
0-60	19760.1	91.50	95.90
0-80	20299.72	94.00	98.50
0-90	20352.82	94.20	98.80
10-90	14922.23	69.10	72.40
20-40	5471.47	25.30	26.60
20-50	6805.74	31.50	33.00
40-70	2409.97	11.20	11.70
60-80	539.62	2.50	2.60
70-80	175.40	0.80	0.90
80-90	53.09	0.20	0.30
90-110	46.29	0.20	0.20
90-120	77.25	0.40	0.40
90-130	112.90	0.50	0.50
90-150	193.52	0.90	0.90
90-180	245.70	1.10	1.20
110-180	199.41	0.90	1.00
0-180	20598.52	95.40	100.00

Total Luminaire Efficiency = 95.40%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5430.59
10-20	6812.3
20-30	3403.73
30-40	2067.74
40-50	1334.27
50-60	711.48
60-70	364.22
70-80	175.40
80-90	53.09
90-100	21.37
100-110	24.92
110-120	30.96
120-130	35.66
130-140	40.35
140-150	40.27
150-160	30.99
160-170	16.56
170-180	4.63

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-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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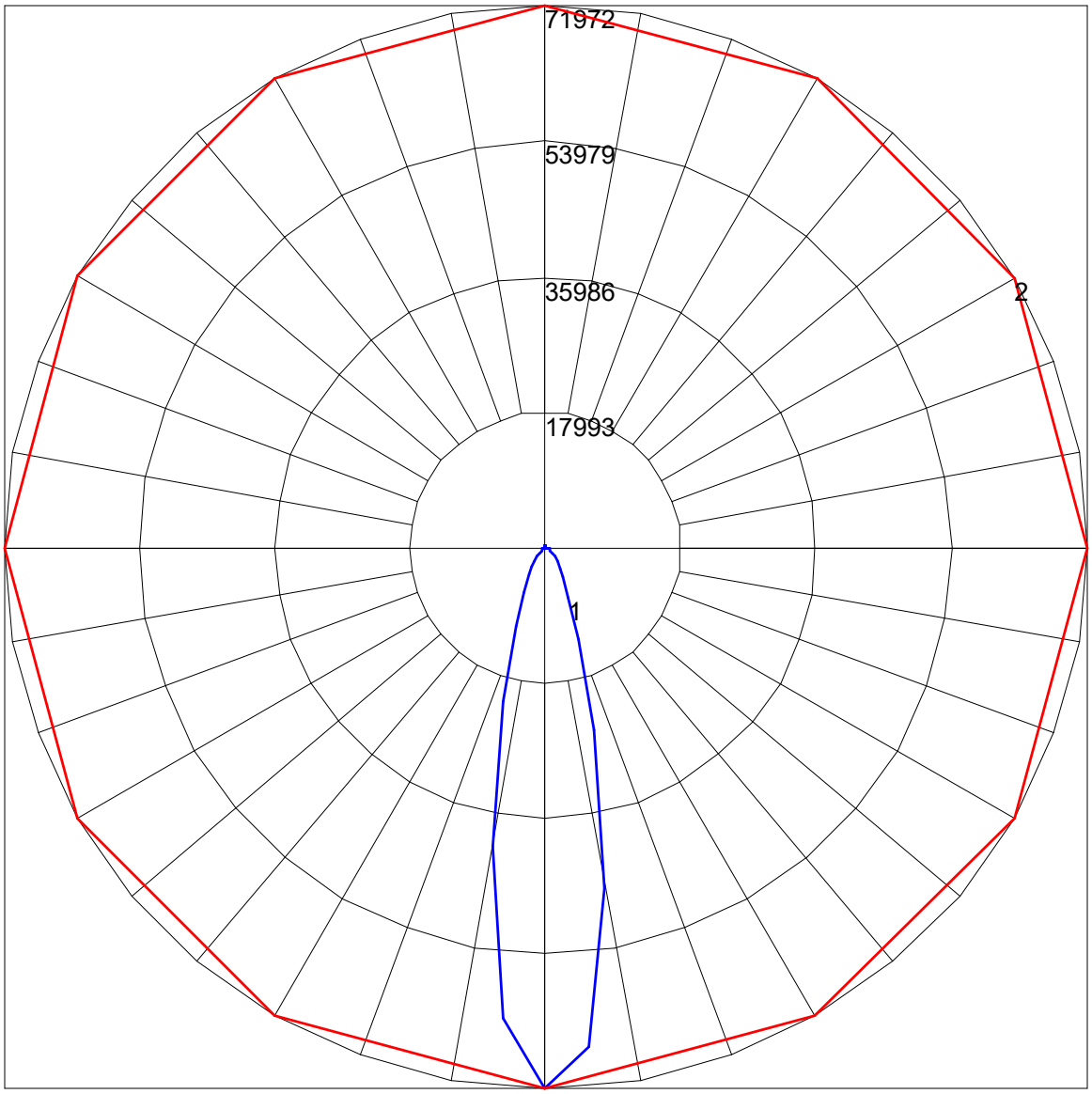
IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-24WS.IES

POLAR GRAPH



Maximum Candela = 71971.707 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.)

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-38NF.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 194018
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2019-04-12
[ISSUEDATE] 2019-04-12
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] GAU-LTL-150W-LED-38NF
[LUMINAIRE] 150W LED FLOOD LIGHT - 38 DEGREE OPTICS
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
[LAMPPOSITION] 0,0

CHARACTERISTICS

Lumens Per Lamp	21600 (1 lamp)
Total Lamp Lumens	21600
Luminaire Lumens	20971
Total Luminaire Efficiency	97 %
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	150
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)	1.20 ft
Luminous Height	0.30 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10081	10167	12736
55	5601	5303	6707
65	2407	2174	2536
75	995	772	734
85	0	0	0

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-38NF.IES

CANDELA TABULATION

	0	30	60	90	120	150	180	210	240	270
0	42402.371	42402.371	42402.371	42402.371	42402.371	42402.371	42402.371	42402.371	42402.371	42402.371
5	40531.742	39507.864	38894.401	38505.587	38721.595	39326.417	40464.779	41276.969	41732.746	42192.843
10	34414.395	32869.938	31992.945	31550.129	31882.781	32964.981	34865.852	36513.993	37403.946	38201.015
15	25607.749	24138.894	23348.305	23086.935	23691.758	25015.887	27113.325	29081.157	30029.433	30951.787
20	16880.376	15776.360	15342.617	15281.486	16017.426	17142.180	18974.143	20733.744	21535.349	22302.826
25	10038.972	9322.689	9149.667	9302.601	9899.647	10804.288	12156.930	13586.040	14042.465	14443.807
30	5348.358	4983.305	5038.819	5299.324	5673.235	6281.297	7176.002	8068.115	8310.692	8463.626
35	2882.411	2746.326	2813.072	2985.879	3241.632	3593.509	4132.233	4557.121	4649.788	4586.930
40	1694.540	1689.399	1756.037	1904.046	2055.381	2225.746	2464.003	2668.779	2665.323	2552.351
45	1034.030	1077.124	1151.409	1256.151	1395.001	1497.670	1641.164	1774.139	1714.412	1606.862
50	767.196	725.463	784.152	842.798	961.322	1050.965	1184.998	1196.792	1135.986	1050.620
55	512.112	513.926	541.942	582.574	656.492	722.612	781.495	806.790	756.006	701.616
60	338.895	317.143	327.036	342.610	384.213	417.695	483.361	525.936	499.562	472.172
65	186.572	187.106	188.882	183.747	200.503	198.092	203.797	245.709	262.342	274.870
70	126.842	132.957	116.798	105.295	116.351	122.269	102.535	145.860	152.510	159.757
75	60.923	60.392	48.902	40.975	48.040	52.527	35.769	64.483	76.633	89.302
80	18.097	15.769	8.340	4.713	7.541	13.609	0.000	20.143	20.726	26.394
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	4.365	2.720	4.549	0.000	0.000	0.000	0.000	0.000
135	0.659	3.566	4.865	13.161	8.705	2.504	0.000	0.000	0.000	0.000
140	6.910	11.116	10.783	19.063	14.356	11.580	0.000	0.000	2.171	3.551
145	12.412	18.812	11.282	16.317	14.723	22.003	5.195	5.897	2.287	5.048
150	18.363	19.577	13.161	16.136	14.043	24.396	8.221	13.727	3.102	2.056
155	17.067	18.330	16.419	12.278	19.162	23.268	9.934	16.985	6.059	2.951
160	15.185	16.702	15.820	14.438	16.801	18.464	6.310	16.270	11.198	9.169
165	10.766	11.533	10.436	12.047	12.645	9.152	8.306	9.055	12.032	10.284
170	2.153	4.566	3.204	4.782	3.899	2.356	0.925	3.318	10.418	10.267
175	0.000	1.208	0.000	0.227	1.339	0.000	0.000	0.000	1.123	0.000
180	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238

Vert. Angles	**Horizontal Angles**		
	300	**330**	**360**
0	42402.371	42402.371	42402.371
5	42063.238	41579.381	40531.742
10	37730.118	36682.479	34414.395
15	29964.630	28465.535	25607.749
20	21013.042	19398.168	16880.376
25	13276.067	11959.715	10038.972
30	7428.948	6522.146	5348.358
35	3918.169	3408.174	2882.411
40	2237.627	1959.452	1694.540
45	1399.451	1209.105	1034.030
50	896.952	779.551	767.196
55	607.695	549.049	512.112
60	414.044	366.479	338.895

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-38NF.IES

CANDELA TABULATION - (Cont.)

65	234.520	203.497	186.572
70	155.083	138.977	126.842
75	85.893	79.958	60.923
80	23.219	22.422	18.097
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	0.659
140	0.000	0.000	6.910
145	0.000	2.802	12.412
150	5.897	10.649	18.363
155	5.098	14.405	17.067
160	9.254	16.121	15.185
165	10.766	8.871	10.766
170	8.306	5.681	2.153
175	6.593	1.605	0.000
180	0.238	0.238	0.238

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-38NF.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	11039.21	51.10	52.60
0-30	16455.5	76.20	78.50
0-40	18918.69	87.60	90.20
0-60	20639.54	95.60	98.40
0-80	20949.24	97.00	99.90
0-90	20953.33	97.00	99.90
10-90	17274.9	80.00	82.40
20-40	7879.48	36.50	37.60
20-50	9010.97	41.70	43.00
40-70	1959.42	9.10	9.30
60-80	309.70	1.40	1.50
70-80	71.13	0.30	0.30
80-90	4.10	0.00	0.00
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.21	0.00	0.00
90-150	8.71	0.00	0.00
90-180	18.01	0.10	0.10
110-180	18.01	0.10	0.10
0-180	20971.34	97.10	100.00

Total Luminaire Efficiency = 97.10%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3678.44
10-20	7360.77
20-30	5416.29
30-40	2463.19
40-50	1131.49
50-60	589.36
60-70	238.56
70-80	71.13
80-90	4.10
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.21
130-140	2.50
140-150	5.99
150-160	6.15
160-170	2.92
170-180	0.23

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-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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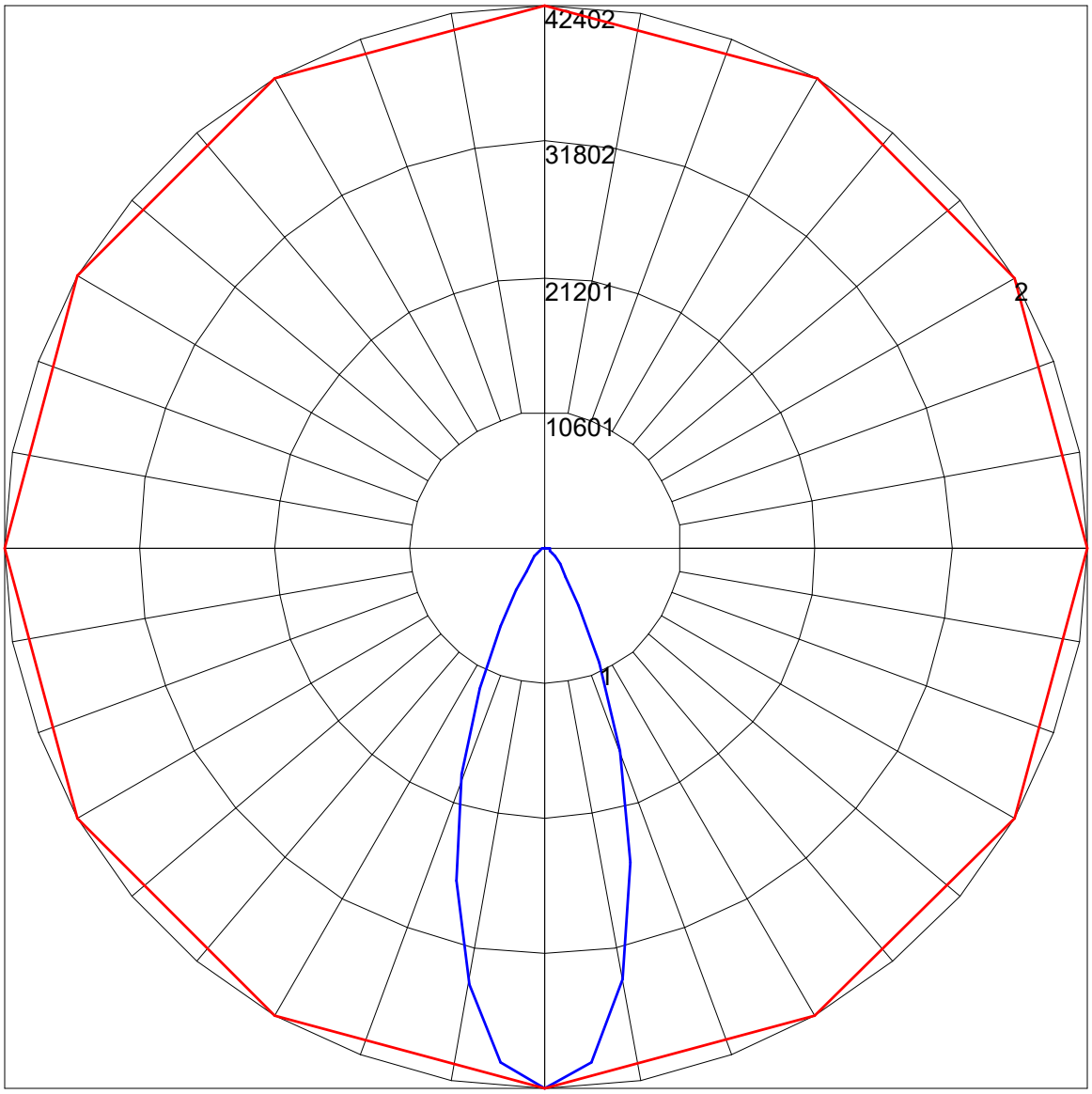
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-38NF.IES

POLAR GRAPH



Maximum Candela = 42402.371 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.)

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-60F.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 194019
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2019-04-12
[ISSUEDATE] 2019-04-12
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] GAU-LTL-150W-LED-60F
[LUMINAIRE] 150W LED FLOOD LIGHT - 60 DEGREE OPTICS
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
[LAMPPOSITION] 0,0

CHARACTERISTICS

Lumens Per Lamp	21600 (1 lamp)
Total Lamp Lumens	21600
Luminaire Lumens	21074
Total Luminaire Efficiency	98 %
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	150
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)	1.20 ft
Luminous Height	0.30 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26881	24653	26703
55	11251	10083	11096
65	5131	4820	5486
75	2662	2509	2939
85	1071	817	1113

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-60F.IES

CANDELA TABULATION

	0	30	60	90	120	150	180	210	240	270
0	21831.929	21831.929	21831.929	21831.929	21831.929	21831.929	21831.929	21831.929	21831.929	21831.929
5	21847.049	21611.601	21434.689	21229.914	21105.277	20952.993	21678.563	21534.918	21373.343	21289.749
10	20419.237	20160.027	20030.637	19813.766	19715.050	19489.754	20122.226	20059.583	19950.067	19935.594
15	18545.799	18304.303	18172.537	17942.705	17882.438	17641.805	18189.602	18171.890	18061.725	18096.719
20	16083.091	15861.037	15755.191	15516.933	15495.334	15211.931	15661.876	15705.727	15642.867	15716.095
25	13294.213	13074.964	12993.314	12744.040	12716.176	12446.812	12819.212	12887.470	12864.140	12962.425
30	10106.366	9862.061	9846.292	9623.588	9550.145	9296.336	9571.963	9639.141	9652.966	9825.556
35	7014.860	6826.933	6834.926	6655.638	6600.989	6370.940	6536.618	6605.957	6633.606	6799.500
40	4517.375	4405.915	4419.308	4292.295	4245.853	4062.895	4164.418	4218.420	4231.381	4357.097
45	2757.342	2694.268	2709.172	2633.786	2594.040	2469.187	2527.942	2551.919	2562.503	2647.610
50	1671.837	1623.711	1629.219	1586.514	1559.945	1473.542	1541.779	1528.969	1526.723	1581.697
55	1028.673	1007.073	1000.484	963.785	950.889	902.417	936.157	941.471	931.599	955.295
60	648.953	630.700	625.710	610.374	592.035	563.284	608.235	593.093	584.086	603.807
65	397.649	430.288	403.568	397.412	383.609	389.808	370.195	410.869	380.865	395.619
70	260.743	311.203	272.019	261.089	259.534	282.992	245.147	301.007	260.700	262.212
75	162.933	180.192	175.057	164.054	163.840	156.867	152.564	168.575	165.665	165.749
80	95.514	100.800	96.126	91.918	89.397	87.472	88.820	95.482	88.490	93.903
85	46.118	43.997	42.512	41.748	39.534	37.711	41.502	42.208	39.203	44.176
90	20.283	19.570	19.877	20.054	20.283	19.698	20.750	21.164	20.802	21.743
95	20.683	20.944	21.326	21.318	22.149	21.666	22.463	22.616	22.005	22.795
100	22.845	23.575	23.711	24.033	24.160	23.456	23.508	24.569	24.696	23.627
105	25.621	25.925	26.740	27.690	26.418	26.197	25.331	26.595	26.977	26.137
110	29.388	30.362	31.602	32.272	30.718	30.481	28.530	29.820	30.371	28.565
115	33.460	35.538	36.726	38.288	36.421	34.656	32.069	33.283	35.488	34.969
120	38.542	40.815	41.122	47.569	43.191	39.400	36.210	36.682	40.290	49.589
125	44.880	45.193	45.634	49.427	45.813	43.217	40.171	40.188	42.640	44.370
130	48.723	50.157	51.201	53.365	51.403	48.731	45.007	43.744	46.688	47.772
135	54.339	54.620	54.060	57.862	55.298	54.119	48.358	47.561	49.394	50.209
140	58.303	58.923	56.912	59.830	57.259	57.149	52.049	51.403	50.699	52.313
145	62.137	61.076	60.135	61.314	61.119	60.838	54.866	53.391	53.525	54.263
150	64.105	62.884	62.299	62.018	62.876	62.349	57.045	55.953	57.292	55.773
155	64.522	64.377	63.571	64.310	63.835	63.545	57.920	57.775	58.599	57.283
160	64.895	64.725	63.171	64.122	63.606	64.012	58.726	59.065	58.709	59.381
165	63.614	65.556	61.960	64.327	62.316	63.885	60.763	59.685	58.854	59.033
170	62.824	63.826	62.995	64.148	62.806	63.266	61.119	60.720	61.238	61.424
175	62.942	62.910	62.171	63.232	62.230	61.688	62.215	60.838	60.314	61.731
180	61.519	61.519	61.519	61.519	61.519	61.519	61.519	61.519	61.519	61.519

Vert. Angles	**Horizontal Angles**		
	300	**330**	**360**
0	21831.929	21831.929	21831.929
5	21181.312	21102.687	21847.049
10	19844.008	19760.844	20419.237
15	18022.195	17949.616	18545.799
20	15654.100	15590.161	16083.091
25	12894.814	12872.132	13294.213
30	9732.888	9756.865	10106.366
35	6740.530	6769.691	7014.860
40	4321.024	4345.865	4517.375
45	2619.961	2645.018	2757.342
50	1561.608	1574.936	1671.837
55	943.199	962.208	1028.673
60	588.622	597.997	648.953

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-60F.IES

CANDELA TABULATION - (Cont.)

65	386.136	405.857	397.649
70	262.169	299.322	260.743
75	167.795	170.484	162.933
80	91.747	99.180	95.514
85	40.536	45.720	46.118
90	19.808	20.478	20.283
95	20.987	20.860	20.683
100	23.957	22.448	22.845
105	24.899	24.966	25.621
110	29.141	28.090	29.388
115	33.239	30.124	33.460
120	38.169	34.920	38.542
125	42.368	38.464	44.880
130	45.381	41.927	48.723
135	47.561	45.109	54.339
140	50.241	48.809	58.303
145	52.583	51.447	62.137
150	55.443	53.026	64.105
155	56.816	54.713	64.522
160	58.463	56.326	64.895
165	58.845	57.981	63.614
170	59.592	58.778	62.824
175	59.337	58.251	62.942
180	61.519	61.519	61.519

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-60F.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7030.08	32.50	33.40
0-30	12881.55	59.60	61.10
0-40	17132.11	79.30	81.30
0-60	20171.34	93.40	95.70
0-80	20768.09	96.10	98.50
0-90	20821.96	96.40	98.80
10-90	18828.03	87.20	89.30
20-40	10102.04	46.80	47.90
20-50	12229.17	56.60	58.00
40-70	3451.74	16.00	16.40
60-80	596.75	2.80	2.80
70-80	184.24	0.90	0.90
80-90	53.87	0.20	0.30
90-110	51.83	0.20	0.20
90-120	86.40	0.40	0.40
90-130	125.70	0.60	0.60
90-150	201.20	0.90	1.00
90-180	252.46	1.20	1.20
110-180	200.64	0.90	1.00
0-180	21074.42	97.60	100.00

Total Luminaire Efficiency = 97.60%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1993.93
10-20	5036.15
20-30	5851.48
30-40	4250.56
40-50	2127.13
50-60	912.09
60-70	412.51
70-80	184.24
80-90	53.87
90-100	23.83
100-110	27.99
110-120	34.57
120-130	39.30
130-140	39.71
140-150	35.79
150-160	27.95
160-170	17.42
170-180	5.88

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-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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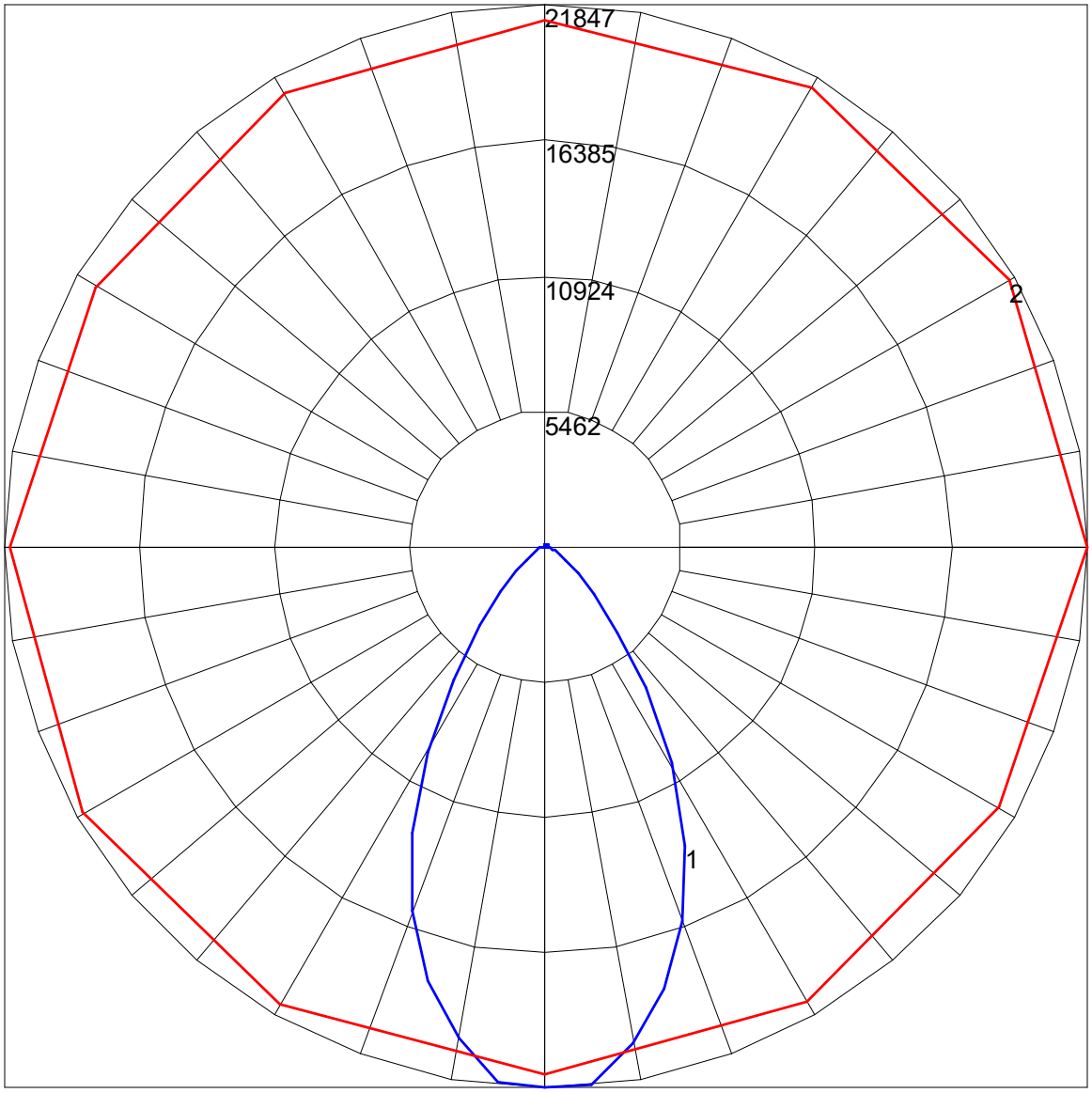
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-60F.IES

POLAR GRAPH



Maximum Candela = 21847.049 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-150W-LED-90WF.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 194020
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2019-04-12
[ISSUEDATE] 2019-04-12
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] GAU-LTL-150W-LED-90WF
[LUMINAIRE] 150W LED FLOOD LIGHT - 90 DEGREE OPTICS
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
[LAMPPOSITION] 0,0

CHARACTERISTICS

Lumens Per Lamp	21600 (1 lamp)
Total Lamp Lumens	21600
Luminaire Lumens	21081
Total Luminaire Efficiency	98 %
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	150
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)	1.20 ft
Luminous Height	0.30 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	48076	44497	49305
55	19166	17677	20176
65	6899	6402	7302
75	2807	2608	3154
85	528	429	628

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GAU-LTL-150W-LED-90WF.IES

CANDELA TABULATION

	0	30	60	90	120	150	180	210	240	270
0	13793.83	913793.83	913793.83	913793.83	913793.83	913793.83	913793.83	913793.83	913793.83	913793.839
5	13866.63	413700.95	713581.28	713449.52	313368.73	513284.70	913878.94	713725.79	613572.43	113452.115
10	13205.64	913069.34	812986.61	812874.29	412796.52	912691.98	313243.01	813108.01	312961.77	612852.260
15	12491.09	512364.51	312284.80	612191.49	212123.66	612041.58	312560.00	212413.11	512295.17	612175.291
20	11781.94	111662.27	211595.31	011507.39	411451.66	411384.70	211855.59	911719.94	711598.11	711491.409
25	10791.32	710691.96	410666.69	110585.04	010532.76	610452.84	310872.76	310778.36	810656.32	210553.071
30	9570.235	9496.360	9495.064	9431.774	9378.635	9295.904	9667.006	9605.660	9497.656	9398.724
35	8318.684	8263.819	8270.082	8186.703	8191.023	8105.053	8403.143	8372.902	8253.233	8154.950
40	6709.209	6654.774	6696.680	6623.021	6657.799	6558.218	6814.836	6798.204	6678.320	6600.989
45	4931.463	4845.275	4907.702	4862.988	4891.717	4797.322	5039.682	5007.498	4907.486	4859.532
50	3206.423	3119.803	3180.502	3160.197	3171.646	3112.459	3308.379	3285.050	3205.343	3187.846
55	1752.300	1724.802	1794.746	1752.387	1773.339	1726.314	1834.318	1860.693	1819.630	1773.642
60	934.321	937.885	951.947	929.590	939.764	925.897	977.760	1014.006	972.274	944.149
65	534.663	571.190	536.197	528.982	535.786	555.292	561.513	603.526	550.237	540.020
70	309.237	363.023	322.154	317.921	320.340	354.340	324.552	393.502	332.112	323.083
75	171.856	181.587	187.746	176.075	185.907	176.863	180.012	194.394	192.910	181.745
80	81.271	84.874	85.645	82.427	85.524	81.830	86.537	92.821	86.889	89.179
85	22.757	23.091	22.322	23.547	22.705	22.426	27.098	27.116	22.197	26.854
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	2.058	1.060	2.426	2.670	3.126	1.078	1.568	1.216	0.501	1.253
100	3.966	3.789	3.281	4.420	5.016	2.741	2.776	4.508	2.741	2.022
105	7.638	9.425	8.811	10.141	7.936	7.007	6.869	6.711	6.171	7.744
110	13.168	12.487	14.799	15.129	13.535	11.524	9.269	11.088	13.626	11.243
115	17.771	21.272	20.380	20.955	18.069	17.911	13.870	17.561	17.981	18.804
120	21.428	21.847	23.703	27.377	22.111	21.864	17.631	21.568	22.093	23.737
125	25.016	25.068	28.286	31.943	27.694	22.214	20.205	21.620	26.889	26.768
130	27.675	29.233	33.747	35.341	30.965	25.822	24.018	25.260	29.986	29.302
135	31.438	32.907	37.614	36.739	35.110	29.511	26.854	27.816	31.961	32.207
140	34.518	36.373	38.962	38.436	38.506	33.833	29.440	29.792	34.708	35.075
145	38.436	37.823	40.430	40.869	41.815	36.670	34.274	32.680	37.475	34.274
150	40.413	38.715	42.759	44.558	45.260	39.136	34.831	35.479	38.981	39.959
155	42.776	44.211	44.403	46.973	47.360	42.565	37.911	38.542	43.022	42.478
160	44.893	46.453	46.154	49.107	47.554	48.811	39.819	44.193	45.733	42.111
165	47.008	50.265	48.570	49.898	48.621	49.863	44.368	45.278	44.403	43.160
170	49.284	49.809	51.298	53.153	52.993	47.448	45.260	47.502	50.459	48.146
175	49.740	50.213	48.267	51.086	48.952	47.202	48.481	48.759	48.986	48.412
180	48.524	48.524	48.524	48.524	48.524	48.524	48.524	48.524	48.524	48.524

Vert. Angles	**Horizontal Angles**		
	300	**330**	**360**
0	13793.83	913793.83	913793.839
5	13337.63	113258.57	113866.634
10	12703.64	612617.02	713205.649
15	12031.21	311938.97	912491.095
20	11348.41	311260.06	611781.941
25	10395.60	110316.54	210791.327
30	9233.046	9155.715	9570.235
35	8042.194	7975.448	8318.684
40	6475.272	6419.326	6709.209
45	4726.687	4674.629	4931.463
50	3039.881	3016.984	3206.423
55	1688.880	1663.391	1752.300
60	898.572	896.412	934.321

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CANDELA TABULATION - (Cont.)

65	512.630	537.082	534.663
70	308.287	339.521	309.237
75	177.701	171.370	171.856
80	81.796	80.588	81.271
85	21.638	22.601	22.757
90	0.000	0.000	0.000
95	0.799	1.130	2.058
100	3.143	3.441	3.966
105	9.178	8.167	7.638
110	12.310	10.141	13.168
115	16.844	15.319	17.771
120	19.696	19.575	21.428
125	24.718	21.778	25.016
130	30.299	24.526	27.675
135	31.805	26.448	31.438
140	32.907	28.831	34.518
145	34.797	31.226	38.436
150	37.806	33.079	40.413
155	39.942	37.458	42.776
160	41.635	40.082	44.893
165	43.826	44.558	47.008
170	46.453	45.068	49.284
175	47.414	45.524	49.740
180	48.524	48.524	48.524

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4727.73	21.90	22.40
0-30	9588.66	44.40	45.50
0-40	14665.23	67.90	69.60
0-60	20118.43	93.10	95.40
0-80	20910.04	96.80	99.20
0-90	20946.04	97.00	99.40
10-90	19672.52	91.10	93.30
20-40	9937.5	46.00	47.10
20-50	13693.00	63.40	65.00
40-70	6038.75	28.00	28.60
60-80	791.61	3.70	3.80
70-80	206.05	1.00	1.00
80-90	36.01	0.20	0.20
90-110	10.19	0.00	0.00
90-120	27.61	0.10	0.10
90-130	50.23	0.20	0.20
90-150	97.72	0.50	0.50
90-180	135.02	0.60	0.60
110-180	124.82	0.60	0.60
0-180	21081.06	97.60	100.00

Total Luminaire Efficiency = 97.60%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1273.52
10-20	3454.21
20-30	4860.93
30-40	5076.57
40-50	3755.49
50-60	1697.7
60-70	585.56
70-80	206.05
80-90	36.01
90-100	1.81
100-110	8.39
110-120	17.41
120-130	22.63
130-140	24.45
140-150	23.04
150-160	19.45
160-170	13.20
170-180	4.65

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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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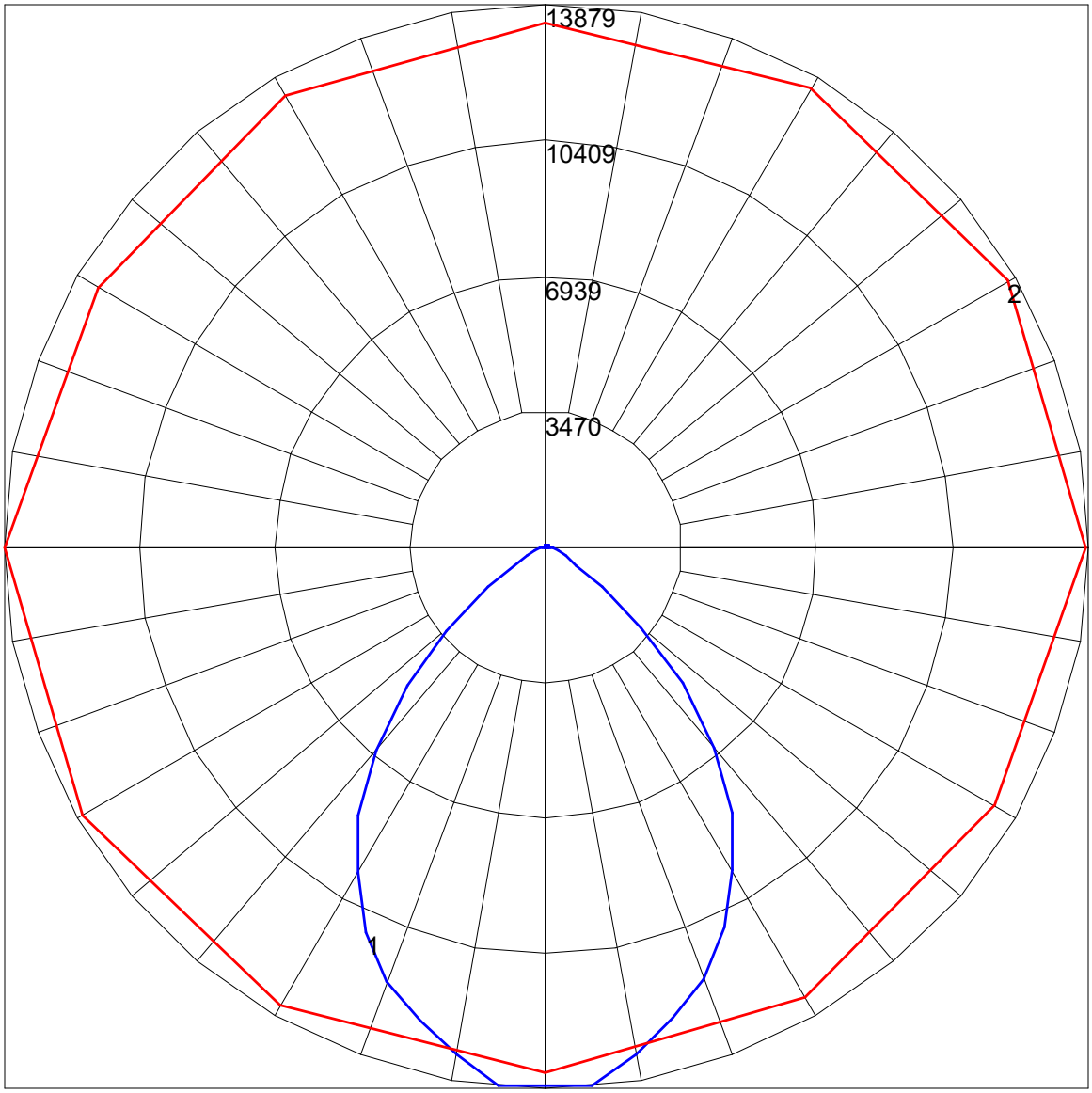
POLAR GRAPH



Maximum Candela = 13878.947 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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