IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-EMG-24-2L-LED-113.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]
[TESTDATE] 14-Oct-2013 16:27:08
[TESTLAB] Radiant Imaging ProSource
[ISSUEDATE] 10/14/2013 2:27:08 PM
[MANUFAC] Larson Electronics
[LUMCAT] EPL-EMG-24-2L-LED-113
[LUMINAIRE] ALUMINUM BALLAST HOUSING AND HUB ASSEMBLIES. WHITE POWDER COATED ALUMINUM REFLECTOR
[LAMP] TWO T8-STYLE LED LAMPS - 1750 LUMENS PER BULB

CHARACTERISTICS



Lumens Per Lamp	1750 (2 lamps)
Total Lamp Lumens	3500
Luminaire Lumens	3125
Total Luminaire Efficiency	89 %
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	28
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.25 ft
Luminous Width (90-270)	0.74 ft
Luminous Height	0.28 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4874	4513	4690
55	4557	4060	4571
65	3905	3860	4707
75	2924	3690	4612
85	813	2129	2580

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	894.424	894.424	894.424	894.424	894.424
5	919.855	897.581	936.414	826.739	948.212
10	843.895	857.152	897.623	884.895	928.847
15	836.473	881.722	887.454	921.126	858.969
20	838.367	846.062	870.862	864.574	897.973
25	826.918	840.013	825.187	849.355	833.573
30	793.818	814.565	807.817	816.186	804.661
35	738.384	739.041	756.768	761.579	787.445
40	667.329	692.785	712.270	737.957	742.316
45	598.381	630.236	670.383	676.909	708.662
50	541.292	569.862	609.711	641.454	654.217
55	475.714	503.952	544.884	603.031	627.225
60	398.833	432.923	504.267	557.015	596.223
65	323.402	355.674	447.076	529.186	560.760
70	252.466	288.075	404.037	484.083	516.654
75	171.720	222.898	346.529	428.691	449.362
80	89.814	163.027	263.028	322.310	336.565
85	26.736	91.188	147.185	179.168	187.818
90	5.827	24.296	46.955	52.457	58.105

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	333.85	9.50	10.70
0-30	720.26	20.60	23.10
0-40	1195.41	34.20	38.30
0-60	2197.8	62.80	70.30
0-80	2977.12	85.10	95.30
0-90	3124.68	89.30	100.00
10-90	3039.56	86.80	97.30
20-40	861.56	24.60	27.60
20-50	1370.28	39.20	43.90
40-70	1442.34	41.20	46.20
60-80	779.33	22.30	24.90
70-80	339.37	9.70	10.90
80-90	147.55	4.20	4.70
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	3124.68	89.30	100.00

Total Luminaire Efficiency = 89.30%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	85.12
10-20	248.73
20-30	386.41
30-40	475.15
40-50	508.71
50-60	493.67
60-70	439.96
70-80	339.37
80-90	147.55
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

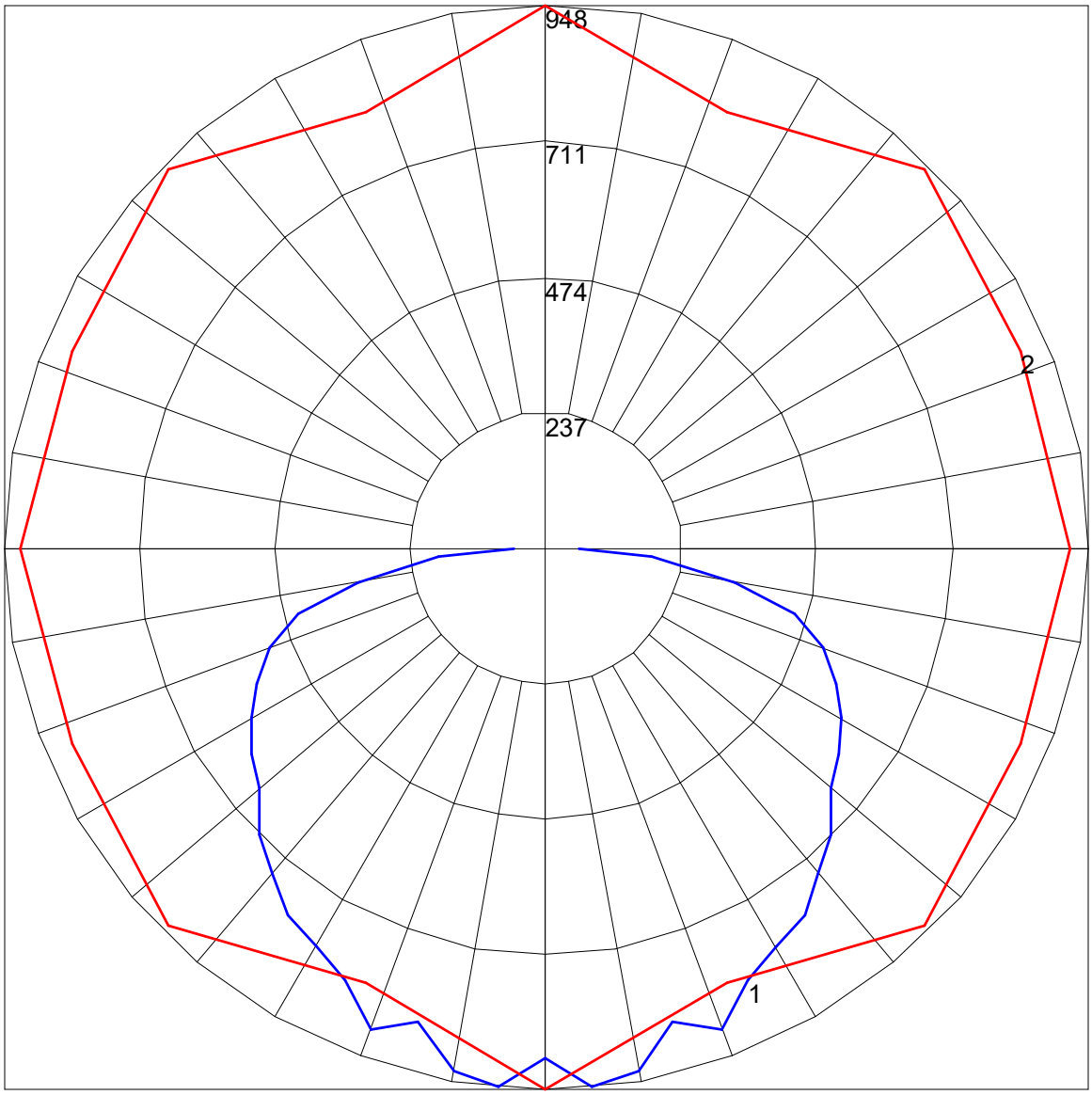
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	104	104	104	104	99	99	99	95	95	95	91	91	91	89
1	95	90	86	82	93	88	84	80	84	81	78	81	78	75	77	75	73	71
2	86	77	70	65	83	76	69	64	72	67	62	69	65	61	67	63	59	57
3	78	67	59	53	75	66	58	52	63	56	51	60	55	50	58	53	49	47
4	71	59	51	44	69	58	50	44	55	49	43	53	47	42	51	46	42	40
5	65	52	44	37	63	51	43	37	49	42	37	48	41	36	46	40	36	34
6	60	47	39	32	58	46	38	32	44	37	32	43	37	32	41	36	31	29
7	55	43	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
8	51	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	25	23
9	48	35	28	23	47	35	28	23	34	27	22	33	27	22	32	26	22	20
10	45	33	25	20	44	32	25	20	31	25	20	30	24	20	30	24	20	18

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POLAR GRAPH



Maximum Candela = 948.212 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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