IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-48-216.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[MANUFAC] LARSON ELECTRONICS MAGNALIGHT
[LUMCAT] EPL-48-216
[LUMINAIRE] CAST ALUMINUM BALLAST HOUSING AND HUB ASSEMBLIES. WHITE POWDER COATED ALUMINUM REFLE
[LAMP] FOUR F54-T5/850/HO. LUMEN RATING = 5000 EACH

CHARACTERISTICS

Lumens Per Lamp	5000 (4 lamps)
Total Lamp Lumens	20000
Luminaire Lumens	17568
Total Luminaire Efficiency	88 %
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	216
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)	4.34 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	15012	13579	13663
55	14335	12328	13318
65	12681	11863	13713
75	10076	11540	13436
85	3314	6859	7518

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	5028.621	5028.621	5028.621	5028.621	5028.621
5	5171.621	5046.356	5264.683	4648.090	5331.030
10	4744.518	4819.090	5046.621	4975.029	5222.152
15	4702.825	4957.213	4989.458	5178.723	4829.315
20	4713.437	4756.723	4896.151	4860.804	5048.560
25	4649.110	4722.682	4639.355	4775.253	4686.478
30	4463.008	4579.641	4541.681	4588.763	4523.967
35	4151.334	4155.028	4254.701	4281.763	4427.171
40	3751.823	3894.946	4004.538	4148.946	4173.415
45	3364.230	3543.333	3769.007	3805.701	3984.231
50	3043.250	3203.863	3427.924	3606.394	3678.149
55	2674.556	2833.331	3063.414	3390.373	3526.353
60	2242.330	2433.963	2835.087	3131.638	3352.047
65	1818.207	1999.677	2513.535	2975.189	3152.679
70	1419.390	1619.635	2271.555	2721.597	2904.719
75	965.471	1253.186	1948.269	2410.188	2526.392
80	504.960	916.573	1478.778	1812.105	1892.228
85	150.286	512.674	827.532	1007.308	1055.941
90	32.755	136.572	263.980	294.939	326.694

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1876.97	9.40	10.70
0-30	4049.45	20.20	23.10
0-40	6720.84	33.60	38.30
0-60	12356.43	61.80	70.30
0-80	16737.96	83.70	95.30
0-90	17567.52	87.80	100.00
10-90	17088.97	85.40	97.30
20-40	4843.87	24.20	27.60
20-50	7703.96	38.50	43.90
40-70	8109.13	40.50	46.20
60-80	4381.53	21.90	24.90
70-80	1907.99	9.50	10.90
80-90	829.56	4.10	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	17567.52	87.80	100.00

Total Luminaire Efficiency = 87.80%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	478.56
10-20	1398.41
20-30	2172.48
30-40	2671.39
40-50	2860.08
50-60	2775.51
60-70	2473.54
70-80	1907.99
80-90	829.56
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

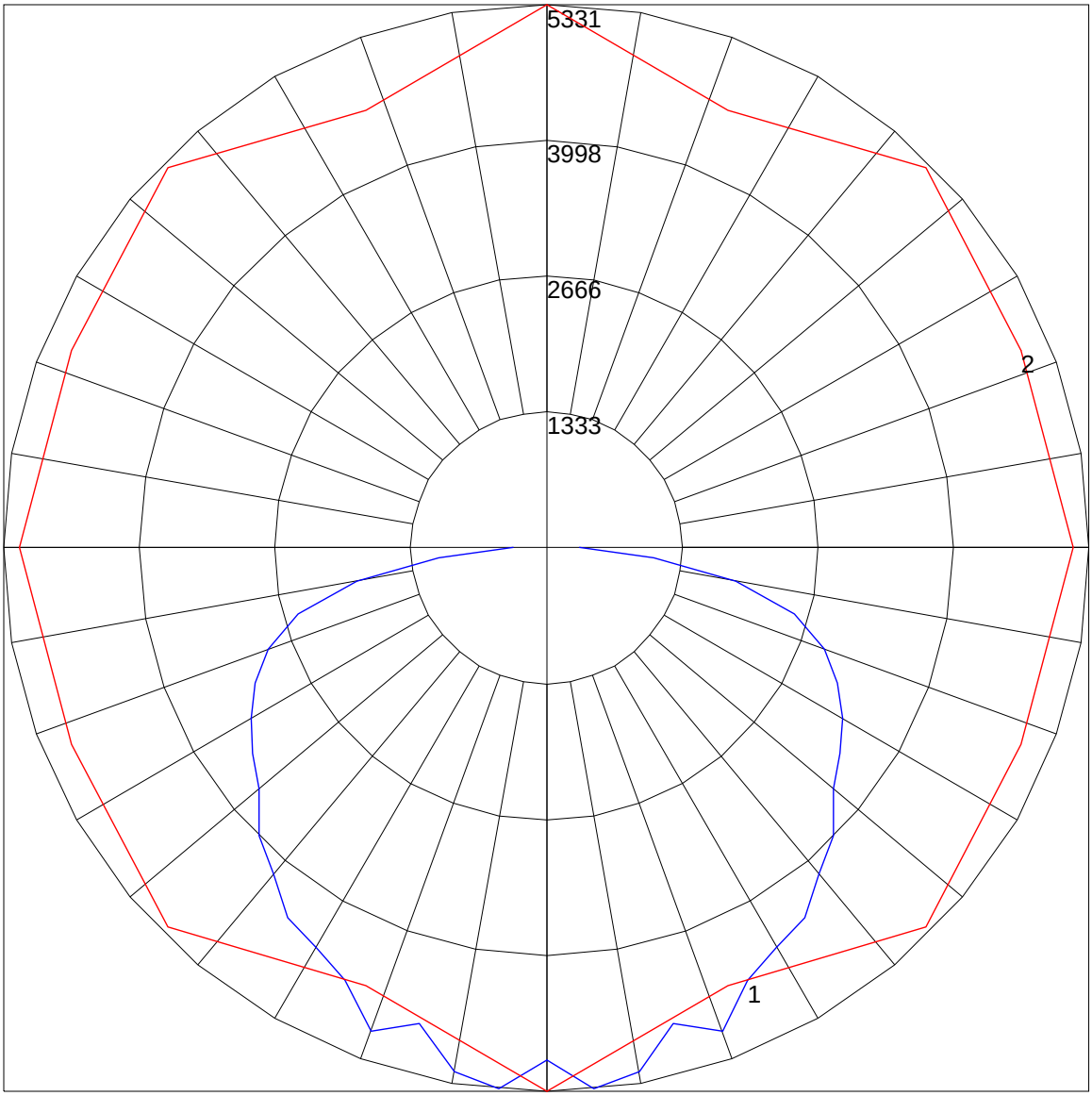
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	102	102	102	102	98	98	98	93	93	93	90	90	90	88
1	94	89	84	80	91	87	83	79	83	80	76	79	77	74	76	74	72	70
2	84	76	69	64	82	74	68	63	71	66	61	68	64	60	65	62	58	56
3	76	66	58	52	74	65	57	51	62	56	50	59	54	49	57	52	49	46
4	70	58	50	43	67	57	49	43	55	48	42	52	47	42	50	45	41	39
5	64	52	43	37	62	51	43	37	49	42	36	47	41	36	45	40	35	33
6	59	46	38	32	57	45	38	32	44	37	31	42	36	31	41	35	31	29
7	54	42	34	28	53	41	33	28	40	33	28	38	32	27	37	32	27	25
8	51	38	30	25	49	37	30	25	36	29	25	35	29	24	34	28	24	23
9	47	35	27	22	46	34	27	22	33	27	22	32	26	22	31	26	22	20
10	44	32	25	20	43	32	25	20	31	24	20	30	24	20	29	24	20	18

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POLAR GRAPH



Maximum Candela = 5331.03 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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