



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-12L-LL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8606R_Scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]05/02/17
[TEST DATE]02/23/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LHBXD_LHB11-LED-12L-LL-40
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12893
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.50
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13205	13241	13090
55	13244	13330	13209
65	12990	13229	9705
75	11609	4472	1873
85	8312	3179	3080

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	4116.574	4116.574	4116.574	4116.574	4116.574
2.5	4115.590	4146.098	4132.320	4114.606	4106.733
5.0	4117.558	4148.066	4133.304	4113.622	4104.765
7.5	4114.606	4147.082	4131.336	4111.653	4099.844
10.0	4105.749	4139.209	4122.479	4101.812	4089.019
12.5	4090.003	4123.463	4105.749	4084.098	4071.304
15.0	4067.368	4103.780	4085.082	4061.463	4047.686
17.5	4040.797	4076.225	4058.511	4031.940	4019.146
20.0	4002.416	4041.781	4023.083	3995.527	3982.734
22.5	3961.083	3996.511	3980.765	3951.242	3938.448
25.0	3909.909	3947.305	3929.591	3900.068	3887.274
27.5	3847.909	3887.274	3871.528	3840.036	3829.211
30.0	3780.989	3821.338	3805.592	3770.164	3758.354
32.5	3704.228	3742.608	3726.862	3691.434	3679.625
35.0	3618.609	3655.022	3640.260	3600.895	3593.022
37.5	3524.134	3559.562	3544.800	3506.420	3494.610
40.0	3418.833	3453.277	3434.579	3400.135	3390.293
42.5	3305.659	3339.119	3319.437	3284.008	3277.120
45.0	3183.628	3213.152	3192.485	3162.962	3156.073
47.5	3052.740	3079.312	3058.645	3032.074	3027.153
50.0	2907.091	2932.678	2919.884	2895.281	2889.376
52.5	2757.504	2777.187	2763.409	2743.727	2743.727
55.0	2590.204	2618.743	2606.934	2590.204	2583.315
57.5	2423.888	2453.411	2444.554	2429.792	2421.919
60.0	2248.714	2279.222	2273.317	2254.619	2214.270
62.5	2063.700	2095.192	2094.207	1983.986	1769.448
65.0	1871.796	1905.256	1906.240	1566.719	1398.435
67.5	1671.036	1703.512	1699.575	1170.119	889.644
70.0	1457.482	1486.021	1292.150	627.869	431.045
72.5	1237.039	1273.451	905.390	332.633	190.919
75.0	1024.469	1062.850	394.632	158.443	165.332
77.5	807.963	850.280	163.364	155.491	160.412
80.0	607.202	515.679	126.951	144.666	150.570
82.5	417.267	179.110	118.094	126.951	127.936
85.0	247.014	82.666	94.476	93.491	91.523
87.5	110.221	59.047	53.142	53.142	54.127
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1546.44	N.A.	12.00
0-30	3354.43	N.A.	26.00
0-40	5623.41	N.A.	43.60
0-60	10402.55	N.A.	80.70
0-80	12758.79	N.A.	99.00
0-90	12892.59	N.A.	100.00
10-90	12499.04	N.A.	96.90
20-40	4076.98	N.A.	31.60
20-50	6532.94	N.A.	50.70
40-70	6487.34	N.A.	50.30
60-80	2356.24	N.A.	18.30
70-80	648.04	N.A.	5.00
80-90	133.80	N.A.	1.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	12892.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	393.55
10-20	1152.88
20-30	1808.00
30-40	2268.98
40-50	2455.96
50-60	2323.18
60-70	1708.2
70-80	648.04
80-90	133.80
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

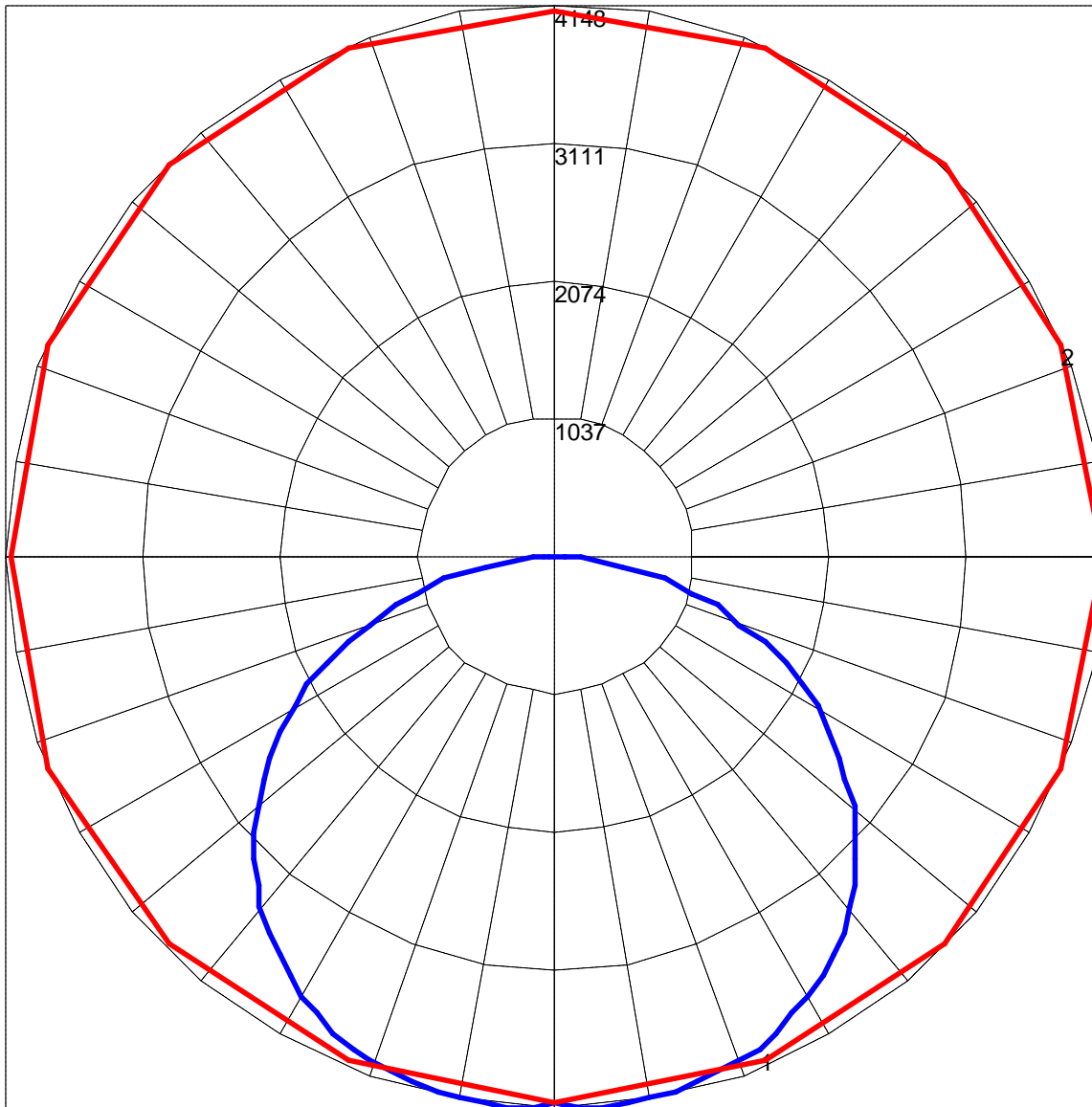
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 4148.066 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)