IES INDOOR REPORT
PHOTOMETRIC FILENAME : CHB-LED-24L-LL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-10242
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]10/02/18
[TESTDATE]05/31/18
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]CHB-LED-24L-LL-40
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	24821
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	175
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.50
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	45967	47290	45936
55	45306	46000	45991
65	42418	41133	33983
75	35795	28752	28191
85	19557	7280	4195

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	7803	7803	7803	7803	7803
2.5	7860	7872	7820	7783	7754
5.0	7870	7882	7828	7792	7761
7.5	7870	7883	7828	7792	7759
10.0	7858	7872	7818	7784	7752
12.5	7836	7851	7798	7767	7738
15.0	7805	7816	7769	7742	7717
17.5	7762	7772	7729	7708	7683
20.0	7706	7716	7678	7661	7632
22.5	7635	7647	7615	7593	7558
25.0	7547	7564	7539	7513	7483
27.5	7443	7462	7441	7422	7402
30.0	7320	7341	7320	7321	7309
32.5	7172	7196	7183	7195	7171
35.0	6965	7025	7037	7037	7022
37.5	6758	6804	6869	6873	6850
40.0	6545	6600	6680	6670	6551
42.5	6319	6383	6457	6360	6293
45.0	6045	6139	6219	6072	6041
47.5	5755	5865	5916	5798	5788
50.0	5479	5574	5617	5524	5492
52.5	5165	5283	5243	5224	5207
55.0	4833	4947	4907	4920	4906
57.5	4473	4605	4546	4538	4180
60.0	4115	4251	4191	3850	3718
62.5	3732	3828	3826	3415	3390
65.0	3334	3412	3233	2952	2671
67.5	2930	3028	2759	2373	2381
70.0	2532	2592	2201	2061	2079
72.5	2129	2164	1758	1751	1774
75.0	1723	1642	1384	1372	1357
77.5	1317	1264	1073	887	792
80.0	943	806	681	487	424
82.5	594	500	296	199	146
85.0	317	228	118	86	68
87.5	98	73	49	39	33
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2945.82	N.A.	11.90
0-30	6422.35	N.A.	25.90
0-40	10814.54	N.A.	43.60
0-60	19880.84	N.A.	80.10
0-80	24580.45	N.A.	99.00
0-90	24821.31	N.A.	100.00
10-90	24074.33	N.A.	97.00
20-40	7868.72	N.A.	31.70
20-50	12585.29	N.A.	50.70
40-70	12201.96	N.A.	49.20
60-80	4699.6	N.A.	18.90
70-80	1563.95	N.A.	6.30
80-90	240.86	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	24821.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	746.97
10-20	2198.85
20-30	3476.53
30-40	4392.19
40-50	4716.57
50-60	4349.73
60-70	3135.65
70-80	1563.95
80-90	240.86
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

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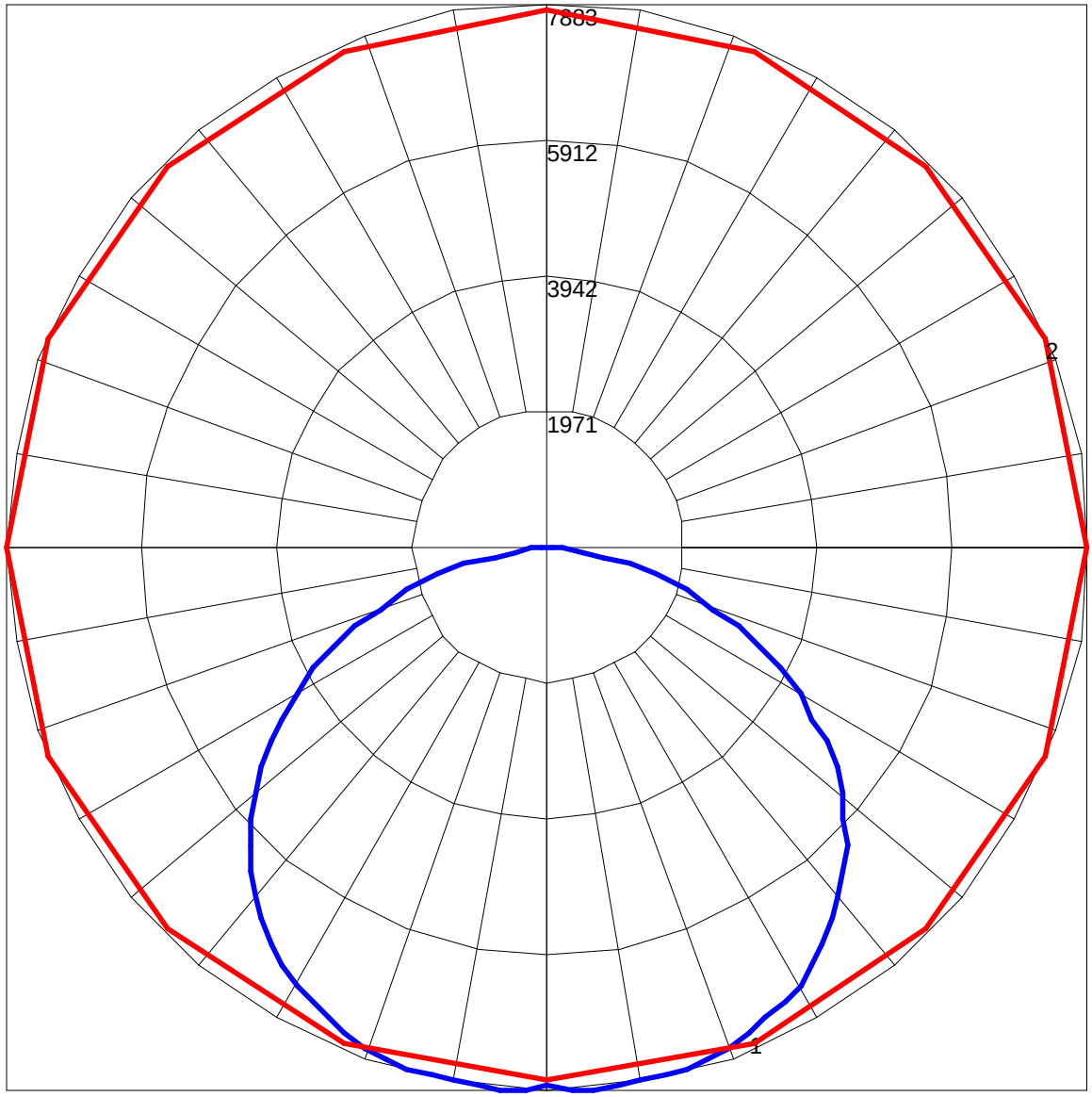
POLAR GRAPH



Maximum Candela = 7883 Located At Horizontal Angle = 22.5, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)