IES INDOOR REPORT
PHOTOMETRIC FILENAME : CHB-LED-24L-LL-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-10240
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]10/02/18
[TESTDATE]05/31/18
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]CHB-LED-24L-LL-50
[_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	24864
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	176.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.52
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	46210	47054	45883
55	45419	46141	46272
65	42940	43398	33652
75	35899	28877	26571
85	21469	6971	3948

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	7741	7741	7741	7741	7741
2.5	7815	7804	7758	7716	7691
5.0	7827	7817	7770	7727	7702
7.5	7831	7820	7775	7731	7705
10.0	7824	7815	7770	7726	7700
12.5	7805	7799	7754	7710	7683
15.0	7779	7772	7728	7686	7657
17.5	7740	7732	7689	7651	7624
20.0	7690	7680	7638	7606	7585
22.5	7623	7614	7574	7552	7531
25.0	7540	7533	7499	7474	7446
27.5	7433	7430	7410	7380	7363
30.0	7306	7309	7300	7280	7272
32.5	7147	7162	7157	7167	7169
35.0	6949	6985	7008	7028	6991
37.5	6765	6779	6842	6835	6843
40.0	6567	6587	6671	6665	6539
42.5	6334	6382	6460	6346	6281
45.0	6077	6144	6188	6074	6034
47.5	5806	5871	5960	5809	5786
50.0	5508	5581	5614	5539	5521
52.5	5191	5262	5256	5256	5236
55.0	4845	4966	4922	4957	4936
57.5	4497	4628	4590	4631	4139
60.0	4141	4283	4223	3769	3756
62.5	3776	3893	3869	3431	3420
65.0	3375	3538	3411	3062	2645
67.5	2978	3033	2718	2360	2363
70.0	2558	2604	2349	2061	2075
72.5	2154	2178	1697	1764	1781
75.0	1728	1770	1390	1458	1279
77.5	1336	1243	1085	876	817
80.0	964	821	698	545	444
82.5	632	494	347	171	160
85.0	348	247	113	73	64
87.5	122	72	49	39	34
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2927.4	N.A.	11.80
0-30	6388.5	N.A.	25.70
0-40	10766.64	N.A.	43.30
0-60	19855.4	N.A.	79.90
0-80	24615.08	N.A.	99.00
0-90	24864.38	N.A.	100.00
10-90	24122.84	N.A.	97.00
20-40	7839.24	N.A.	31.50
20-50	12559.83	N.A.	50.50
40-70	12264.13	N.A.	49.30
60-80	4759.68	N.A.	19.10
70-80	1584.31	N.A.	6.40
80-90	249.30	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	24864.38	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	741.54
10-20	2185.86
20-30	3461.11
30-40	4378.13
40-50	4720.59
50-60	4368.17
60-70	3175.37
70-80	1584.31
80-90	249.30
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	75	82	78	74	79	75	72	70
3	90	79	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	53	64	58	53	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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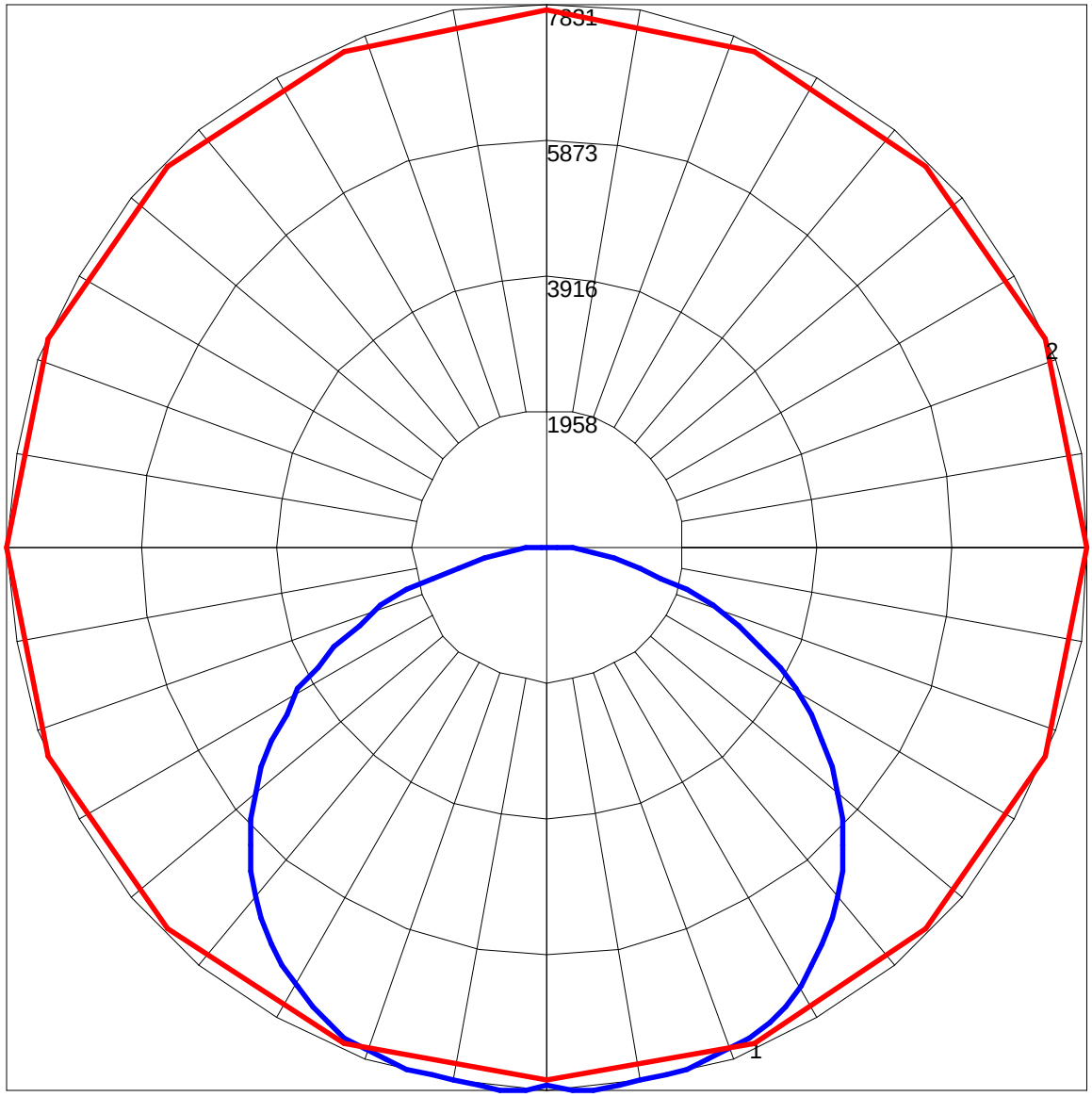
POLAR GRAPH



Maximum Candela = 7831 Located At Horizontal Angle = 0, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)