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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-10239
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]10/02/18
[TESTDATE]05/31/18
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]CHB-LED-24L-DA-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	22745
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	176.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
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	42446	42089	41450
55	38791	38304	36973
65	33627	32621	31247
75	27734	26259	24556
85	19989	17953	16904

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	7962	7962	7962	7962	7962
2.5	8029	8023	7980	7939	7915
5.0	8034	8027	7982	7941	7916
7.5	8025	8017	7972	7930	7906
10.0	8005	7997	7950	7908	7883
12.5	7968	7959	7914	7874	7850
15.0	7918	7909	7865	7825	7801
17.5	7854	7844	7800	7760	7732
20.0	7770	7761	7717	7675	7650
22.5	7664	7656	7612	7571	7540
25.0	7540	7531	7488	7447	7415
27.5	7388	7376	7335	7291	7265
30.0	7208	7198	7160	7115	7089
32.5	6997	6991	6955	6910	6883
35.0	6762	6757	6718	6678	6649
37.5	6487	6490	6462	6417	6387
40.0	6202	6205	6173	6129	6096
42.5	5881	5894	5869	5810	5784
45.0	5582	5562	5535	5478	5451
47.5	5235	5248	5190	5120	5066
50.0	4863	4883	4831	4757	4702
52.5	4532	4503	4450	4365	4326
55.0	4138	4156	4086	3985	3944
57.5	3779	3751	3704	3602	3559
60.0	3376	3393	3296	3224	3179
62.5	3013	2992	2950	2853	2810
65.0	2643	2645	2564	2486	2456
67.5	2290	2293	2229	2136	2118
70.0	1958	1952	1887	1812	1765
72.5	1635	1629	1571	1499	1465
75.0	1335	1312	1264	1208	1182
77.5	1023	1018	978	936	918
80.0	753	751	715	692	675
82.5	521	512	489	465	458
85.0	324	315	291	274	274
87.5	167	156	143	131	118
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2983.36	N.A.	13.10
0-30	6431.53	N.A.	28.30
0-40	10624.36	N.A.	46.70
0-60	18506.99	N.A.	81.40
0-80	22395.21	N.A.	98.50
0-90	22744.98	N.A.	100.00
10-90	21984.23	N.A.	96.70
20-40	7641.00	N.A.	33.60
20-50	11893.95	N.A.	52.30
40-70	10427.43	N.A.	45.80
60-80	3888.22	N.A.	17.10
70-80	1343.41	N.A.	5.90
80-90	349.77	N.A.	1.50
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	22744.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	760.75
10-20	2222.62
20-30	3448.17
30-40	4192.83
40-50	4252.95
50-60	3629.67
60-70	2544.81
70-80	1343.41
80-90	349.77
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	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	66	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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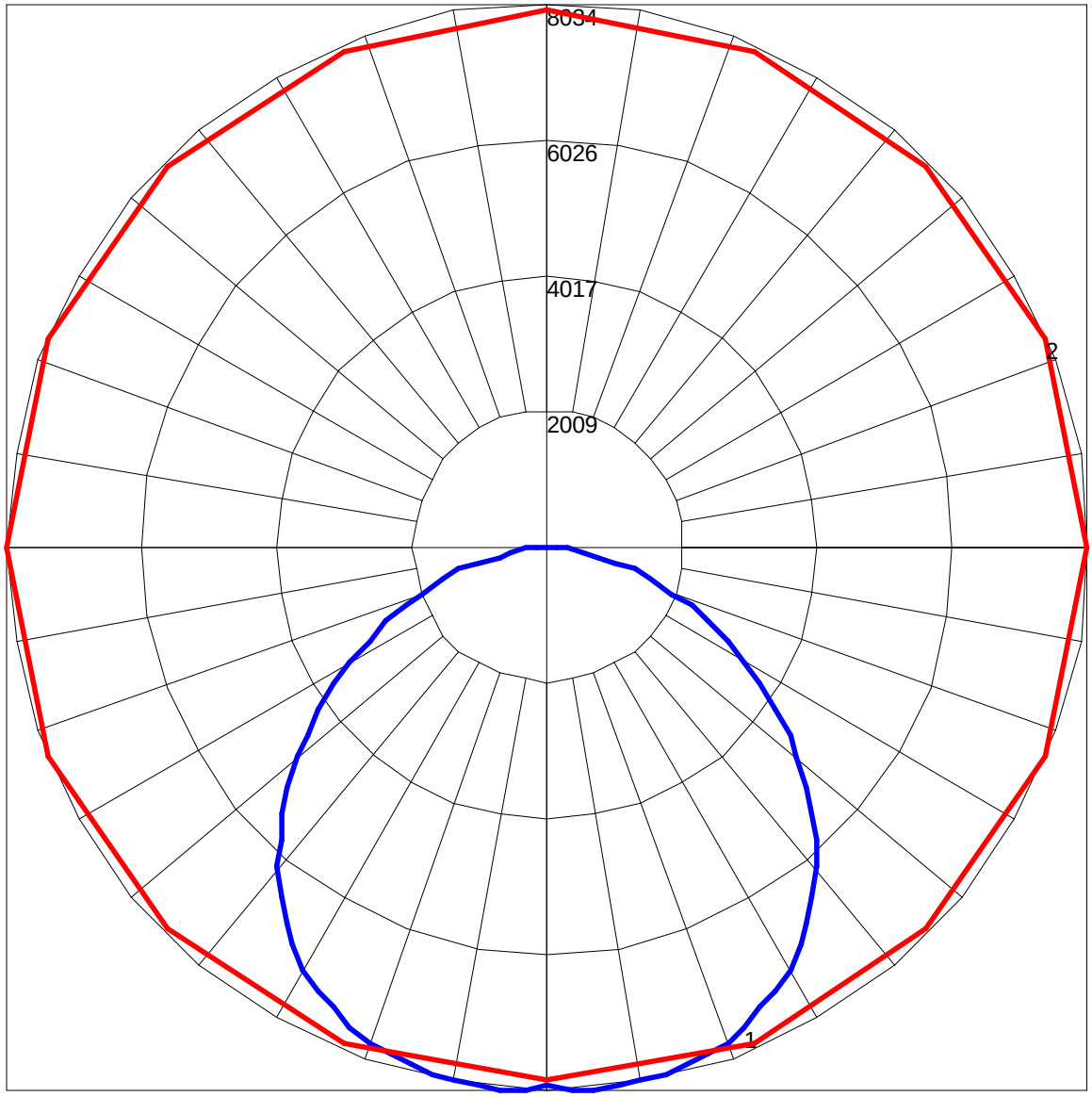
POLAR GRAPH



Maximum Candela = 8034 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)