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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-10241
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]10/02/18
[TESTDATE]05/31/18
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]CHB-LED-24L-DA-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	22679
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	174.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 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	21166	21067	20600
55	19260	18946	18397
65	16603	16133	15439
75	13483	12714	11956
85	9933	8514	7372

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	8014	8014	8014	8014	8014
2.5	8082	8077	8030	7990	7965
5.0	8084	8079	8031	7991	7965
7.5	8072	8067	8020	7981	7954
10.0	8048	8043	7998	7958	7933
12.5	8012	8005	7962	7923	7896
15.0	7960	7954	7909	7870	7845
17.5	7892	7886	7842	7804	7774
20.0	7807	7801	7757	7715	7687
22.5	7700	7694	7648	7607	7580
25.0	7572	7566	7521	7479	7452
27.5	7418	7408	7369	7325	7298
30.0	7226	7223	7186	7146	7119
32.5	7013	7012	6979	6939	6911
35.0	6759	6762	6737	6702	6673
37.5	6493	6497	6475	6429	6405
40.0	6204	6210	6181	6136	6110
42.5	5895	5902	5872	5810	5775
45.0	5567	5576	5541	5472	5418
47.5	5225	5232	5192	5108	5062
50.0	4867	4865	4818	4730	4693
52.5	4483	4486	4442	4352	4313
55.0	4109	4114	4042	3968	3925
57.5	3713	3713	3659	3582	3537
60.0	3345	3342	3280	3191	3155
62.5	2989	2967	2902	2820	2784
65.0	2610	2627	2536	2451	2427
67.5	2263	2266	2188	2101	2055
70.0	1928	1921	1849	1767	1736
72.5	1601	1602	1523	1461	1434
75.0	1298	1278	1224	1174	1151
77.5	1001	999	945	907	888
80.0	744	731	695	657	647
82.5	515	502	467	436	424
85.0	322	309	276	250	239
87.5	168	152	133	116	107
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3000.48	N.A.	13.20
0-30	6464.27	N.A.	28.50
0-40	10667.26	N.A.	47.00
0-60	18522.71	N.A.	81.70
0-80	22344.37	N.A.	98.50
0-90	22678.81	N.A.	100.00
10-90	21913.34	N.A.	96.60
20-40	7666.79	N.A.	33.80
20-50	11917.28	N.A.	52.50
40-70	10367.56	N.A.	45.70
60-80	3821.66	N.A.	16.90
70-80	1309.55	N.A.	5.80
80-90	334.44	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	22678.81	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	765.47
10-20	2235.01
20-30	3463.8
30-40	4202.99
40-50	4250.5
50-60	3604.95
60-70	2512.11
70-80	1309.55
80-90	334.44
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	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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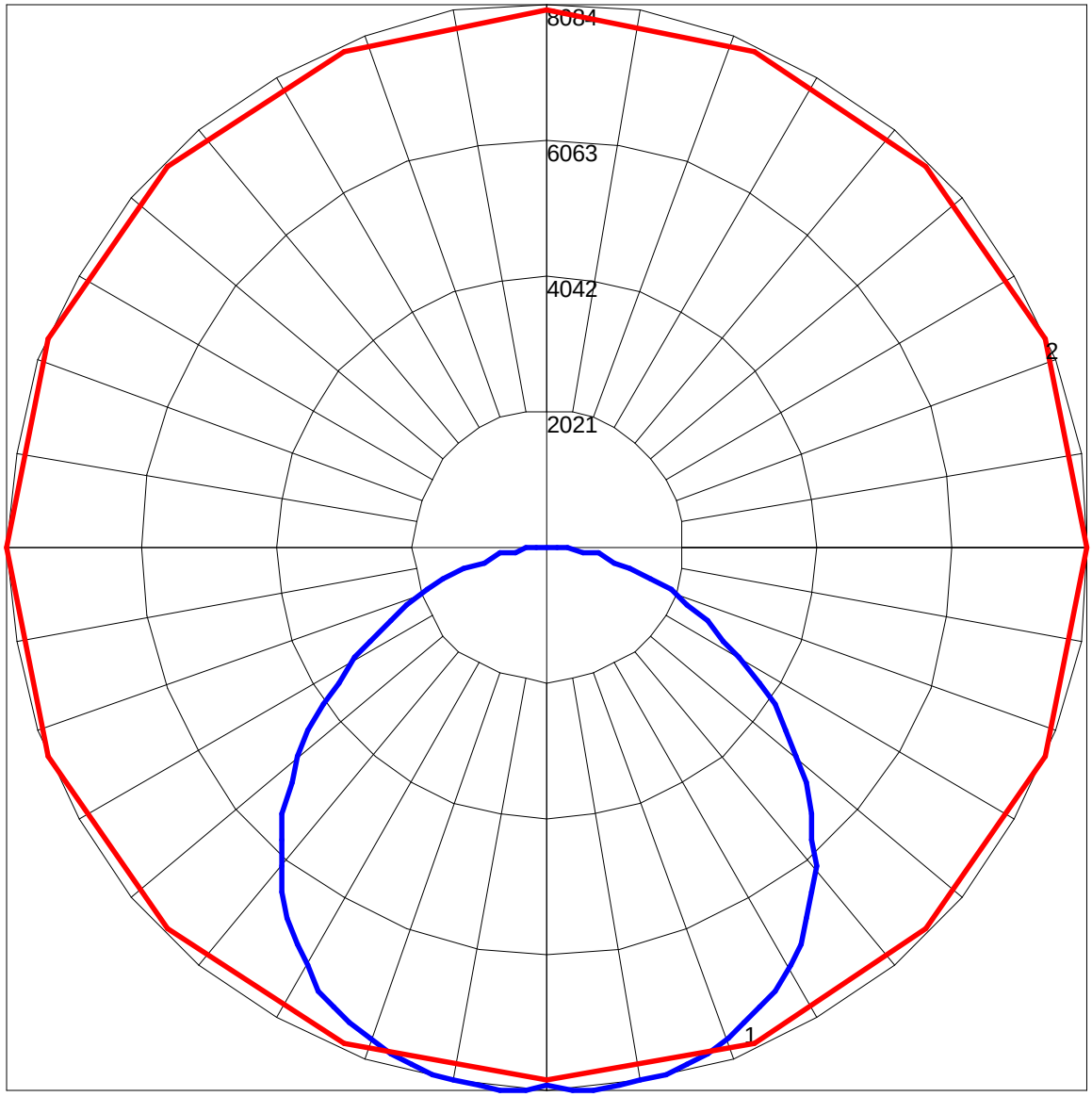
POLAR GRAPH



Maximum Candela = 8084 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.)