IES INDOOR REPORT
PHOTOMETRIC FILENAME : CHB-LED-18L-DA-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-10243
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]10/02/18
[TESTDATE]05/31/18
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]CHB-LED-18L-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	17186
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	131.9
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	31968	31800	31238
55	29229	28854	28273
65	25280	24721	23703
75	20463	19881	18843
85	14991	13819	12215

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	6020	6020	6020	6020	6020
2.5	6073	6066	6032	6004	5985
5.0	6073	6067	6033	6004	5986
7.5	6066	6060	6026	5997	5979
10.0	6047	6042	6009	5980	5962
12.5	6020	6014	5982	5953	5936
15.0	5982	5977	5944	5916	5899
17.5	5932	5926	5895	5866	5846
20.0	5868	5863	5832	5800	5782
22.5	5790	5784	5751	5719	5702
25.0	5694	5687	5656	5623	5606
27.5	5574	5573	5540	5510	5492
30.0	5438	5434	5407	5375	5358
32.5	5279	5274	5249	5219	5201
35.0	5091	5092	5075	5043	5024
37.5	4892	4894	4879	4845	4824
40.0	4677	4681	4665	4622	4609
42.5	4448	4452	4428	4390	4378
45.0	4204	4208	4182	4139	4108
47.5	3949	3952	3917	3867	3849
50.0	3682	3676	3647	3597	3578
52.5	3406	3401	3361	3320	3300
55.0	3118	3112	3078	3036	3016
57.5	2828	2826	2786	2751	2730
60.0	2546	2532	2503	2466	2444
62.5	2254	2261	2223	2178	2162
65.0	1987	1982	1943	1899	1863
67.5	1734	1715	1684	1631	1603
70.0	1476	1456	1426	1376	1357
72.5	1222	1216	1185	1141	1125
75.0	985	980	957	921	907
77.5	760	761	736	717	705
80.0	565	560	541	524	519
82.5	392	385	370	353	344
85.0	243	237	224	208	198
87.5	124	120	108	98	93
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2254.89	N.A.	13.10
0-30	4859.68	N.A.	28.30
0-40	8024.38	N.A.	46.70
0-60	13982.24	N.A.	81.40
0-80	16922.03	N.A.	98.50
0-90	17186.14	N.A.	100.00
10-90	16611.03	N.A.	96.70
20-40	5769.48	N.A.	33.60
20-50	8981.56	N.A.	52.30
40-70	7883.69	N.A.	45.90
60-80	2939.78	N.A.	17.10
70-80	1013.95	N.A.	5.90
80-90	264.11	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	17186.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	575.11
10-20	1679.78
20-30	2604.78
30-40	3164.7
40-50	3212.07
50-60	2745.79
60-70	1925.83
70-80	1013.95
80-90	264.11
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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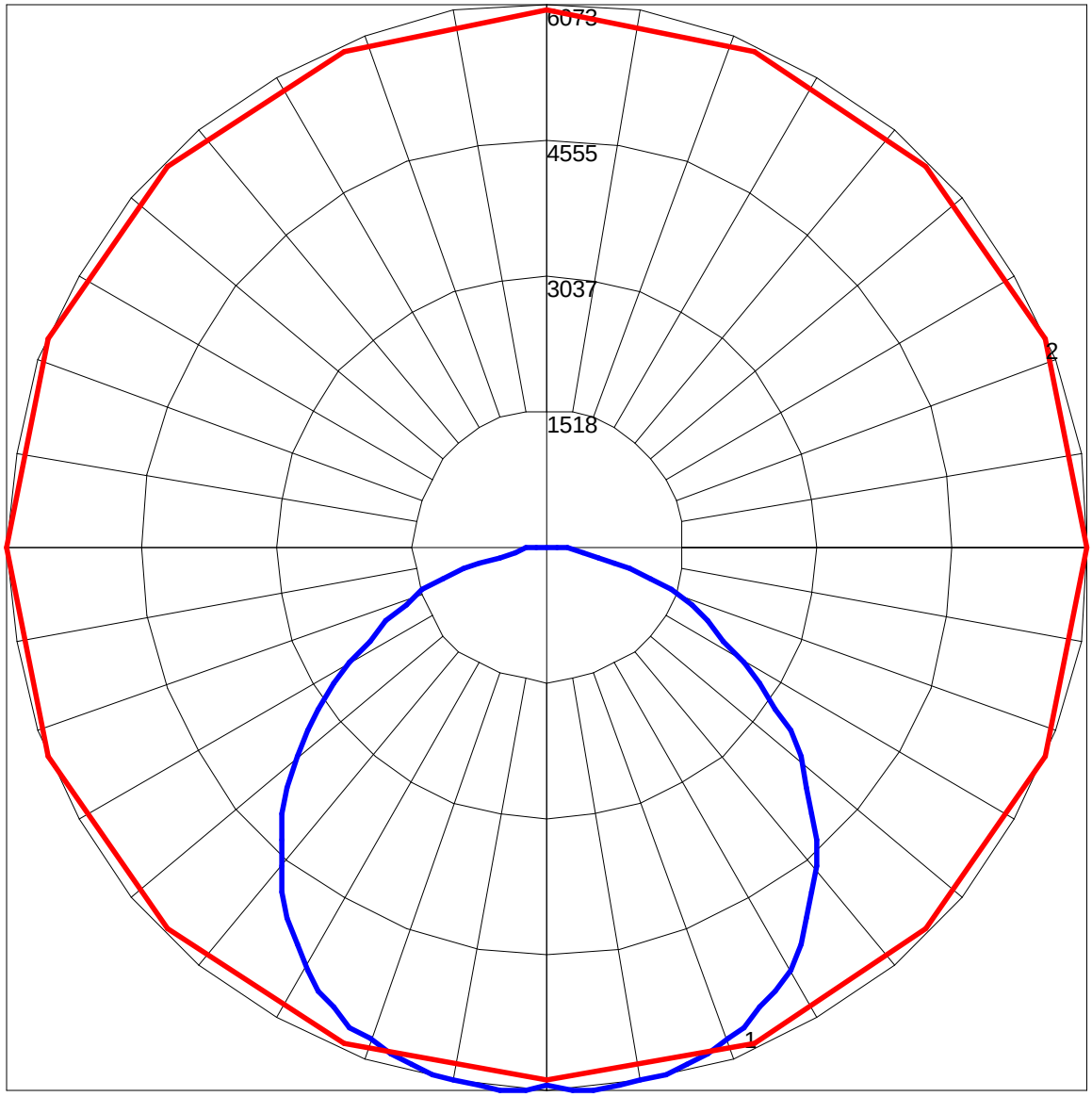
POLAR GRAPH



Maximum Candela = 6073 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)