IES INDOOR REPORT
PHOTOMETRIC FILENAME : CHB-LED-18L-DA-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-10245
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]10/02/18
[TESTDATE]05/31/18
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]CHB-LED-18L-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	17311
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	133.6
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)	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	16056	15991	15782
55	14769	14512	14183
65	12672	12481	12055
75	10429	10065	9453
85	7527	7002	6539

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	6052	6052	6052	6052	6052
2.5	6109	6098	6061	6034	6014
5.0	6112	6100	6063	6036	6015
7.5	6105	6095	6057	6029	6009
10.0	6088	6077	6041	6013	5993
12.5	6061	6049	6014	5988	5968
15.0	6022	6011	5978	5951	5932
17.5	5971	5961	5928	5901	5883
20.0	5908	5898	5865	5837	5820
22.5	5828	5819	5785	5756	5738
25.0	5731	5724	5690	5661	5637
27.5	5615	5608	5576	5546	5522
30.0	5478	5473	5442	5404	5385
32.5	5319	5311	5284	5247	5228
35.0	5139	5132	5107	5068	5047
37.5	4940	4935	4906	4868	4848
40.0	4713	4714	4691	4650	4631
42.5	4481	4483	4454	4416	4397
45.0	4223	4232	4206	4163	4151
47.5	3977	3967	3939	3896	3891
50.0	3697	3708	3667	3625	3606
52.5	3419	3422	3387	3346	3312
55.0	3151	3141	3096	3047	3026
57.5	2853	2856	2815	2761	2738
60.0	2586	2565	2527	2476	2451
62.5	2285	2282	2238	2194	2168
65.0	1992	1999	1962	1921	1895
67.5	1729	1731	1692	1651	1633
70.0	1474	1474	1442	1394	1385
72.5	1237	1229	1200	1158	1128
75.0	1004	998	969	931	910
77.5	782	776	749	720	706
80.0	579	572	554	530	520
82.5	392	390	373	361	353
85.0	244	237	227	216	212
87.5	124	118	110	103	102
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2267.95	N.A.	13.10
0-30	4889.17	N.A.	28.20
0-40	8074.21	N.A.	46.60
0-60	14071.86	N.A.	81.30
0-80	17042.2	N.A.	98.40
0-90	17310.92	N.A.	100.00
10-90	16732.68	N.A.	96.70
20-40	5806.25	N.A.	33.50
20-50	9038.7	N.A.	52.20
40-70	7940.89	N.A.	45.90
60-80	2970.34	N.A.	17.20
70-80	1027.1	N.A.	5.90
80-90	268.72	N.A.	1.60
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	17310.92	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	578.24
10-20	1689.71
20-30	2621.22
30-40	3185.04
40-50	3232.45
50-60	2765.2
60-70	1943.24
70-80	1027.1
80-90	268.72
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	97	106	102	98	95	98	95	92	94	92	89	90	88	87	84
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	65	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	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	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	35	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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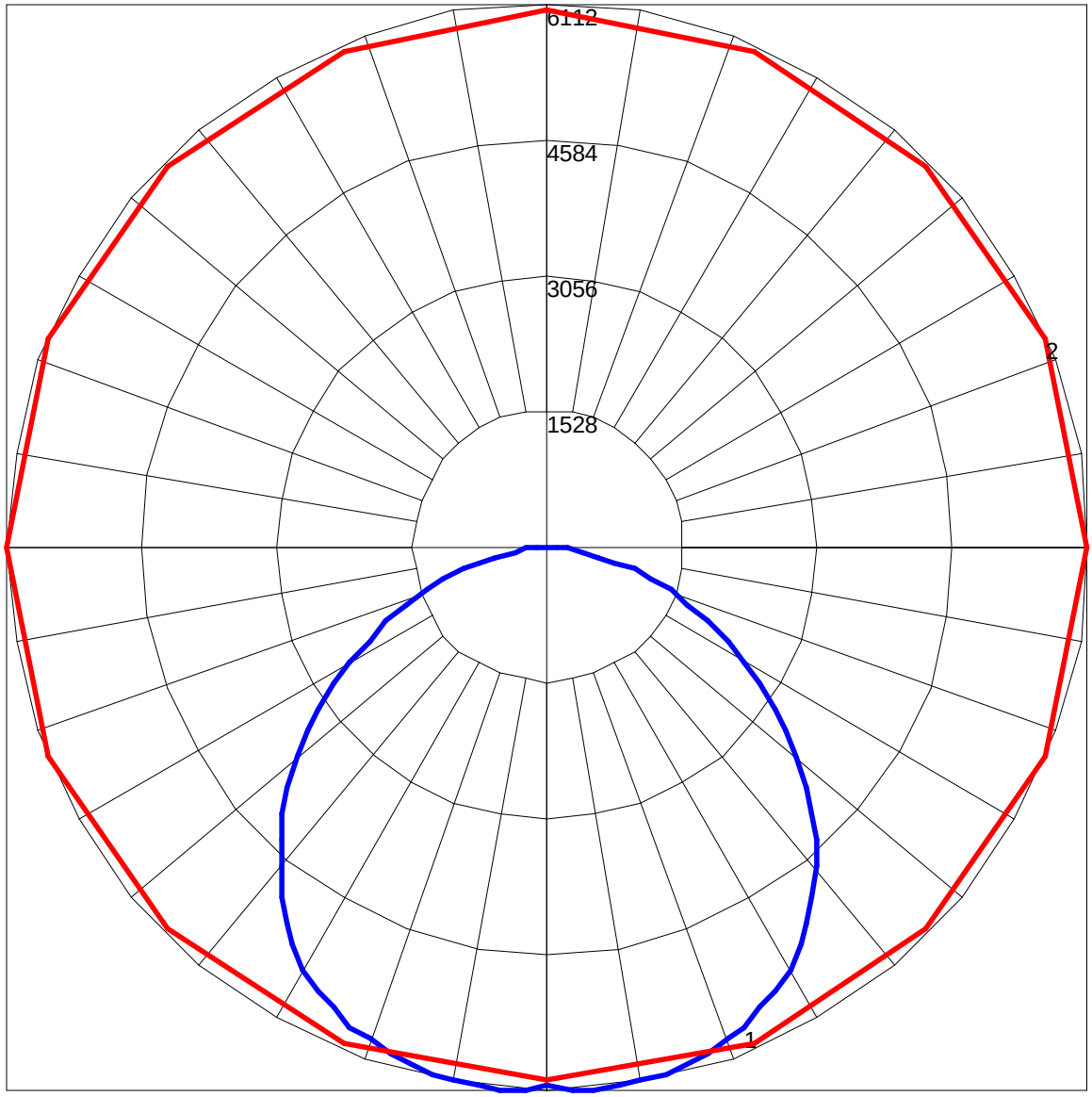
POLAR GRAPH



Maximum Candela = 6112 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.)