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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-10244
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]10/02/18
[TESTDATE]05/31/18
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]CHB-LED-18L-LL-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	18728
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	131.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.50
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	34568	34857	34515
55	34151	34488	34479
65	31871	32952	28143
75	27111	20401	20110
85	14621	5552	3146

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	5864	5864	5864	5864	5864
2.5	5913	5911	5877	5847	5829
5.0	5920	5919	5884	5853	5837
7.5	5919	5921	5883	5854	5836
10.0	5908	5911	5875	5847	5830
12.5	5890	5894	5860	5835	5820
15.0	5865	5868	5840	5816	5804
17.5	5833	5833	5811	5790	5776
20.0	5791	5791	5774	5747	5737
22.5	5739	5739	5726	5699	5696
25.0	5675	5676	5663	5646	5641
27.5	5596	5601	5585	5584	5583
30.0	5502	5512	5500	5500	5476
32.5	5372	5402	5404	5383	5385
35.0	5224	5261	5297	5266	5201
37.5	5078	5108	5160	5070	5045
40.0	4926	4956	4997	4901	4885
42.5	4746	4791	4801	4727	4716
45.0	4546	4600	4584	4547	4539
47.5	4354	4406	4368	4351	4348
50.0	4103	4211	4151	4143	4135
52.5	3875	3958	3921	3922	3908
55.0	3643	3723	3679	3687	3678
57.5	3367	3469	3425	3438	3438
60.0	3114	3161	3155	3186	3187
62.5	2816	2878	2882	2925	2639
65.0	2505	2552	2590	2302	2212
67.5	2214	2234	2286	1961	1779
70.0	1914	1928	1791	1442	1381
72.5	1601	1628	1412	1160	1165
75.0	1305	1325	982	957	968
77.5	1009	1019	726	761	705
80.0	711	667	533	408	347
82.5	448	345	256	209	159
85.0	237	178	90	55	51
87.5	78	56	37	31	28
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2213.3	N.A.	11.80
0-30	4825.55	N.A.	25.80
0-40	8112.06	N.A.	43.30
0-60	14926.19	N.A.	79.70
0-80	18536.46	N.A.	99.00
0-90	18728.47	N.A.	100.00
10-90	18167.15	N.A.	97.00
20-40	5898.75	N.A.	31.50
20-50	9423.45	N.A.	50.30
40-70	9250.64	N.A.	49.40
60-80	3610.28	N.A.	19.30
70-80	1173.77	N.A.	6.30
80-90	192.01	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	18728.47	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	561.32
10-20	1651.98
20-30	2612.24
30-40	3286.51
40-50	3524.69
50-60	3289.44
60-70	2436.51
70-80	1173.77
80-90	192.01
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	54	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	49	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	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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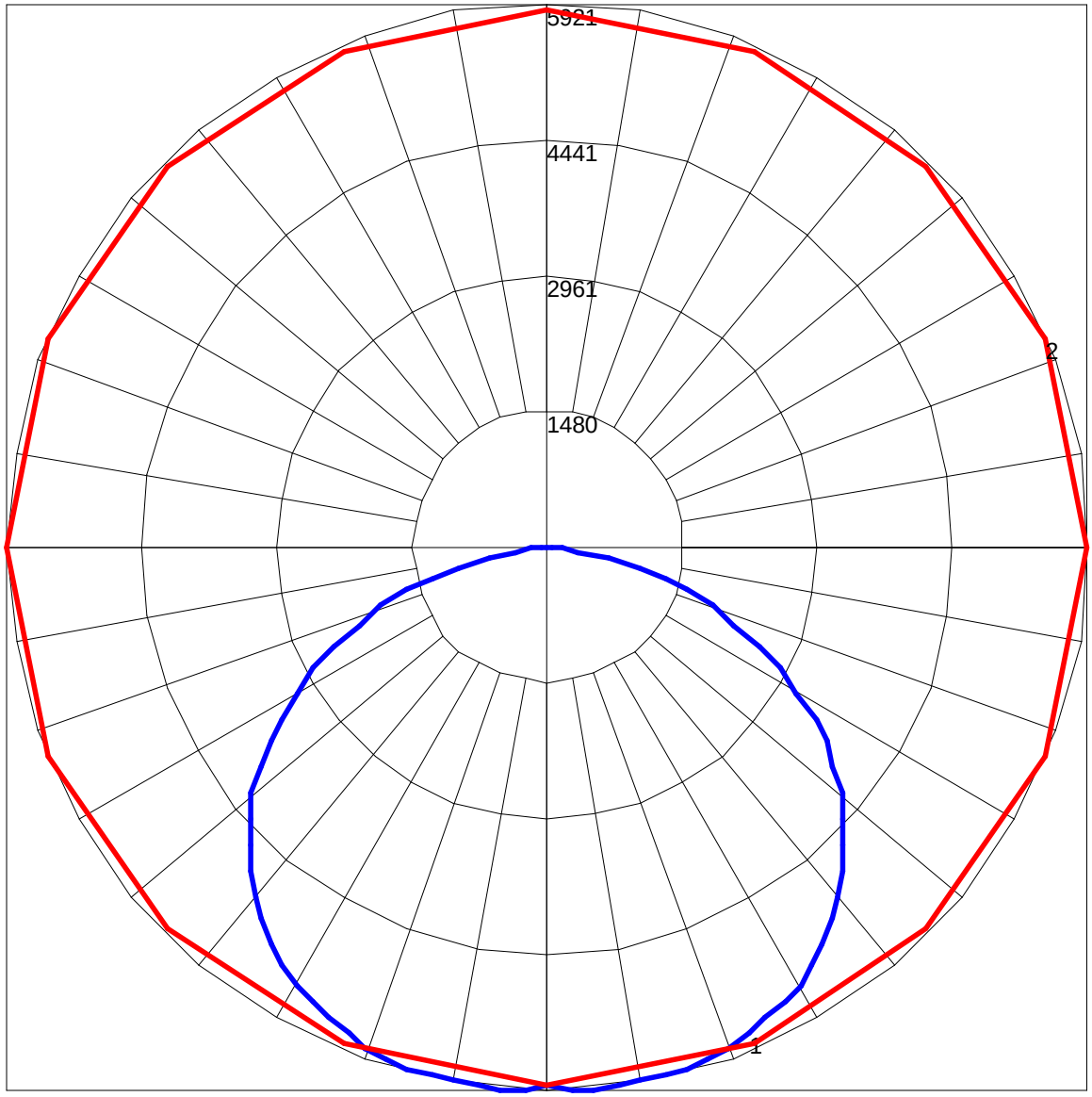
POLAR GRAPH



Maximum Candela = 5921 Located At Horizontal Angle = 22.5, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)