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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-10246
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]10/02/18
[TESTDATE]05/31/18
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]CHB-LED-18L-LL-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	18896
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	133.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.40
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	35085	35161	34720
55	34488	34845	34976
65	32596	33372	28359
75	27132	20276	20650
85	16164	6601	3146

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	5865	5865	5865	5865	5865
2.5	5923	5911	5878	5849	5824
5.0	5934	5922	5886	5858	5832
7.5	5937	5926	5889	5861	5837
10.0	5928	5921	5885	5857	5836
12.5	5914	5906	5873	5848	5829
15.0	5895	5883	5856	5835	5816
17.5	5868	5853	5831	5809	5790
20.0	5833	5816	5794	5773	5755
22.5	5783	5769	5745	5729	5717
25.0	5719	5708	5687	5678	5671
27.5	5637	5631	5617	5620	5602
30.0	5546	5541	5533	5533	5511
32.5	5410	5438	5440	5422	5400
35.0	5272	5287	5331	5287	5251
37.5	5132	5144	5193	5115	5084
40.0	4981	4994	5044	4939	4912
42.5	4796	4837	4847	4766	4744
45.0	4614	4645	4624	4579	4566
47.5	4415	4454	4411	4388	4376
50.0	4171	4256	4203	4185	4174
52.5	3939	4004	3957	3971	3957
55.0	3679	3762	3717	3743	3731
57.5	3414	3499	3468	3493	3491
60.0	3143	3206	3184	3225	3240
62.5	2867	2892	2918	2910	2687
65.0	2562	2596	2623	2302	2229
67.5	2259	2285	2327	1958	1797
70.0	1955	1963	1837	1440	1388
72.5	1629	1648	1406	1184	1191
75.0	1306	1339	976	982	994
77.5	1010	1028	733	779	712
80.0	727	660	545	423	410
82.5	473	357	282	200	170
85.0	262	190	107	56	51
87.5	84	57	39	33	29
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2219.07	N.A.	11.70
0-30	4845.37	N.A.	25.60
0-40	8154.66	N.A.	43.20
0-60	15042.1	N.A.	79.60
0-80	18695.35	N.A.	98.90
0-90	18896.05	N.A.	100.00
10-90	18334.15	N.A.	97.00
20-40	5935.59	N.A.	31.40
20-50	9493.5	N.A.	50.20
40-70	9351.71	N.A.	49.50
60-80	3653.24	N.A.	19.30
70-80	1188.98	N.A.	6.30
80-90	200.70	N.A.	1.10
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	18896.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	561.90
10-20	1657.17
20-30	2626.31
30-40	3309.29
40-50	3557.91
50-60	3329.53
60-70	2464.27
70-80	1188.98
80-90	200.70
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	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	37	31	58	45	37	31	44	36	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	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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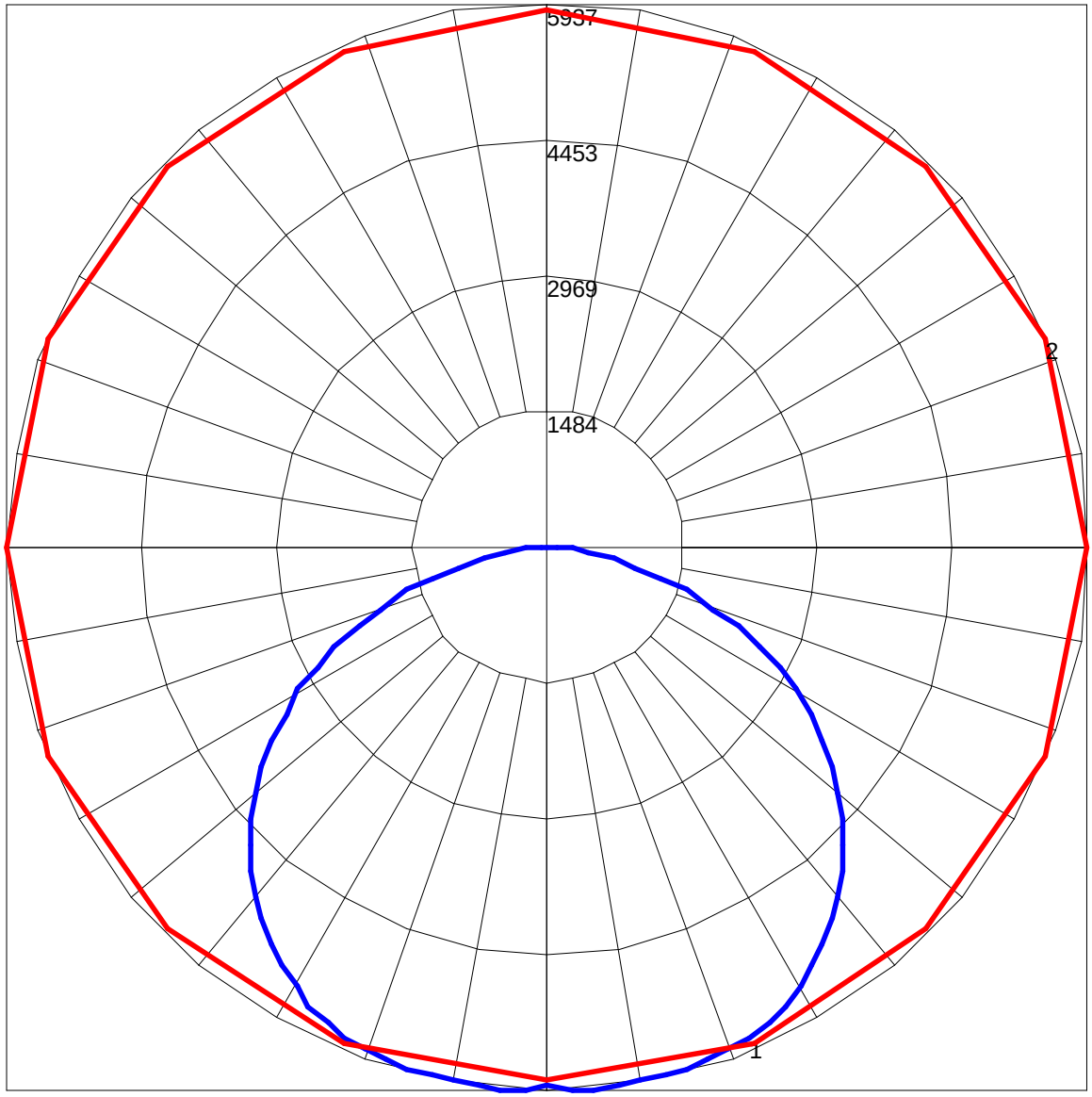
POLAR GRAPH



Maximum Candela = 5937 Located At Horizontal Angle = 0, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)