



IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-SCL-LED-23L-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3048

[TESTLAB] TUV SUD America

[TESTDATE] 2/9/2017 10:10:56 AM

[ISSUE DATE] 11/15/2019

[MANUFAC] LSI INDUSTRIES, INC.

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] Outdoor

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[LUMCAT] TEL22-SCL-LED-23L-45

CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25423
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	221.99
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14460
Maximum Candela Angle	130H 60V
Maximum Candela (<90 Degrees Vertical)	14460
Maximum Candela Angle (<90 Degrees Vertical)	130H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1647 (6.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1673.3	N.A.	6.6
FM - Front-Medium (30-60)	7029.6	N.A.	27.7
FH - Front-High (60-80)	3917.0	N.A.	15.4
FVH - Front-Very High (80-90)	91.5	N.A.	0.4
BL - Back-Low (0-30)	1673.3	N.A.	6.6
BM - Back-Medium (30-60)	7029.6	N.A.	27.7
BH - Back-High (60-80)	3917.0	N.A.	15.4
BVH - Back-Very High (80-90)	91.5	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	25422.8	N.A.	100.0
BUG Rating	B4-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0	3286	3286	3286	3286	3286	3286	3286	3286	3286	3286
5	3342	3495	3612	3722	3817	3895	3965	4013	4046	4052
10	3447	3719	3957	4176	4385	4564	4717	4831	4900	4935
15	3585	3993	4349	4705	5003	5231	5407	5546	5643	5697
20	3743	4249	4750	5192	5519	5803	6011	6180	6287	6341
25	3948	4535	5155	5637	5976	6260	6487	6653	6772	6809
30	4310	5066	5806	6253	6499	6644	6853	7035	7159	7207
35	5196	6138	6956	7345	7356	7198	7197	7415	7640	7737
40	6277	7449	8374	8807	8616	8118	7805	7996	8306	8417
45	6588	8088	9230	10068	10152	9436	8755	8860	9252	9407
50	6174	8054	9705	11168	11609	10929	9938	10006	10599	10722
55	5556	7807	10255	12540	13136	12511	11452	11468	12160	12146
60	4764	7442	10627	13659	14379	14460	12865	12212	12115	11769
65	3523	6505	9886	12930	14161	14302	11055	8835	7765	7052
70	2193	4516	7212	9501	10375	8237	5596	4473	3084	2638
75	889	2331	4235	5214	5188	4009	2828	2155	974	798
80	255	694	1377	1647	1380	1029	856	606	268	204
85	37	76	99	95	81	48	34	23	22	22
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	100	110	120	130	140	150	160	170	180	190
0	3286	3286	3286	3286	3286	3286	3286	3286	3286	3286
5	4046	4013	3965	3895	3817	3722	3612	3495	3342	3228
10	4900	4831	4717	4564	4385	4176	3957	3719	3447	3203
15	5643	5546	5407	5231	5003	4705	4349	3993	3585	3235
20	6287	6180	6011	5803	5519	5192	4750	4249	3743	3317
25	6772	6653	6487	6260	5976	5637	5155	4535	3948	3416
30	7159	7035	6853	6644	6499	6253	5806	5066	4310	3603
35	7640	7415	7197	7198	7356	7345	6956	6138	5196	4106
40	8306	7996	7805	8118	8616	8807	8374	7449	6277	4658
45	9252	8860	8755	9436	10152	10068	9230	8088	6588	4668
50	10599	10006	9938	10929	11609	11168	9705	8054	6174	4212
55	12160	11468	11452	12511	13136	12540	10255	7807	5556	3710

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CANDELA TABULATION - (Cont.)

60	12115	12212	12865	14460	14379	13659	10627	7442	4764	3166
65	7765	8835	11055	14302	14161	12930	9886	6505	3523	2378
70	3084	4473	5596	8237	10375	9501	7212	4516	2193	1313
75	974	2155	2828	4009	5188	5214	4235	2331	889	598
80	268	606	856	1029	1380	1647	1377	694	255	200
85	22	23	34	48	81	95	99	76	37	31
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	3286	3286	3286	3286	3286	3286	3286	3286	3286	3286
5	3088	2964	2855	2765	2692	2642	2613	2605	2613	2642
10	2949	2733	2567	2442	2333	2247	2207	2185	2207	2247
15	2910	2659	2417	2274	2184	2123	2090	2079	2090	2123
20	2934	2591	2412	2280	2172	2089	2040	2027	2040	2089
25	2925	2616	2441	2294	2172	2072	2006	1986	2006	2072
30	2933	2643	2463	2317	2189	2076	1987	1958	1987	2076
35	3094	2687	2572	2446	2300	2145	2012	1962	2012	2145
40	3242	2869	2911	2678	2414	2222	2074	2020	2074	2222
45	3209	3174	3203	2781	2420	2221	2106	2067	2106	2221
50	3113	3206	3051	2692	2398	2226	2126	2084	2126	2226
55	2984	3033	2823	2576	2347	2193	2141	2086	2141	2193
60	2672	2639	2464	2365	2196	2102	2015	1967	2015	2102
65	2152	2041	1950	1987	1838	1752	1670	1623	1670	1752
70	1371	1310	1285	1275	1254	1298	1192	1150	1192	1298
75	705	729	690	678	718	762	710	662	710	762
80	243	259	251	258	289	316	258	245	258	316
85	34	37	38	40	41	42	42	41	42	42
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0

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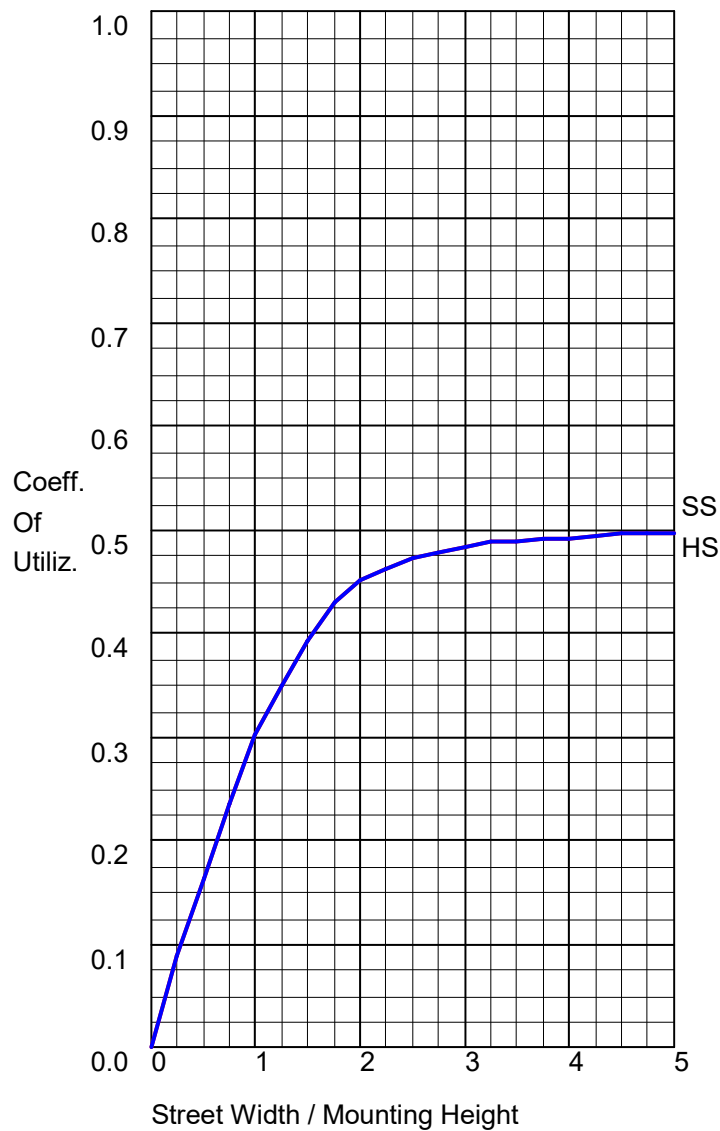
CANDELA TABULATION - (Cont.)

135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0	3286	3286	3286	3286	3286	3286	3286
5	2692	2765	2855	2964	3088	3228	3342
10	2333	2442	2567	2733	2949	3203	3447
15	2184	2274	2417	2659	2910	3235	3585
20	2172	2280	2412	2591	2934	3317	3743
25	2172	2294	2441	2616	2925	3416	3948
30	2189	2317	2463	2643	2933	3603	4310
35	2300	2446	2572	2687	3094	4106	5196
40	2414	2678	2911	2869	3242	4658	6277
45	2420	2781	3203	3174	3209	4668	6588
50	2398	2692	3051	3206	3113	4212	6174
55	2347	2576	2823	3033	2984	3710	5556
60	2196	2365	2464	2639	2672	3166	4764
65	1838	1987	1950	2041	2152	2378	3523
70	1254	1275	1285	1310	1371	1313	2193
75	718	678	690	729	705	598	889
80	289	258	251	259	243	200	255
85	41	40	38	37	34	31	37
90	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

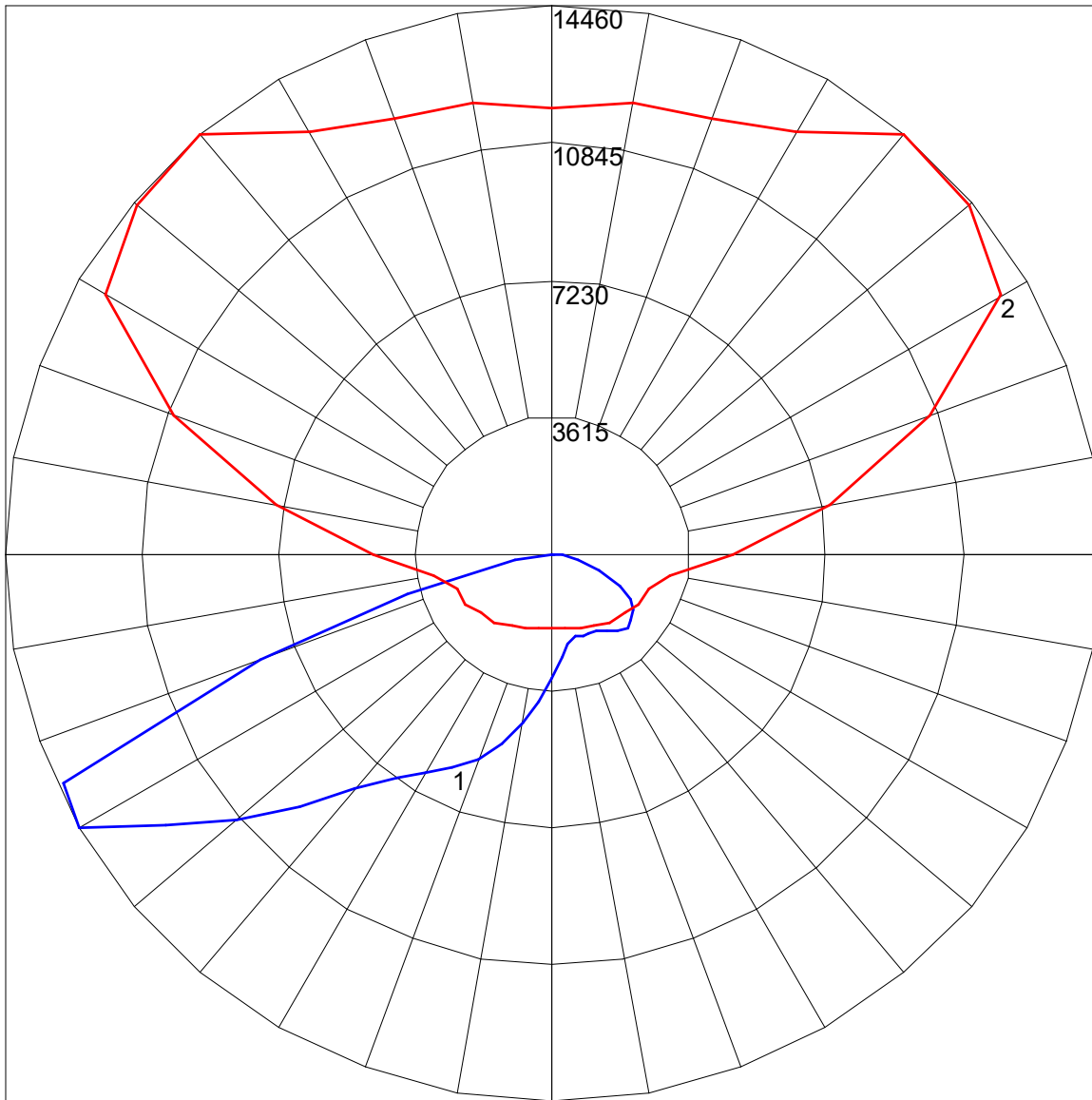
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

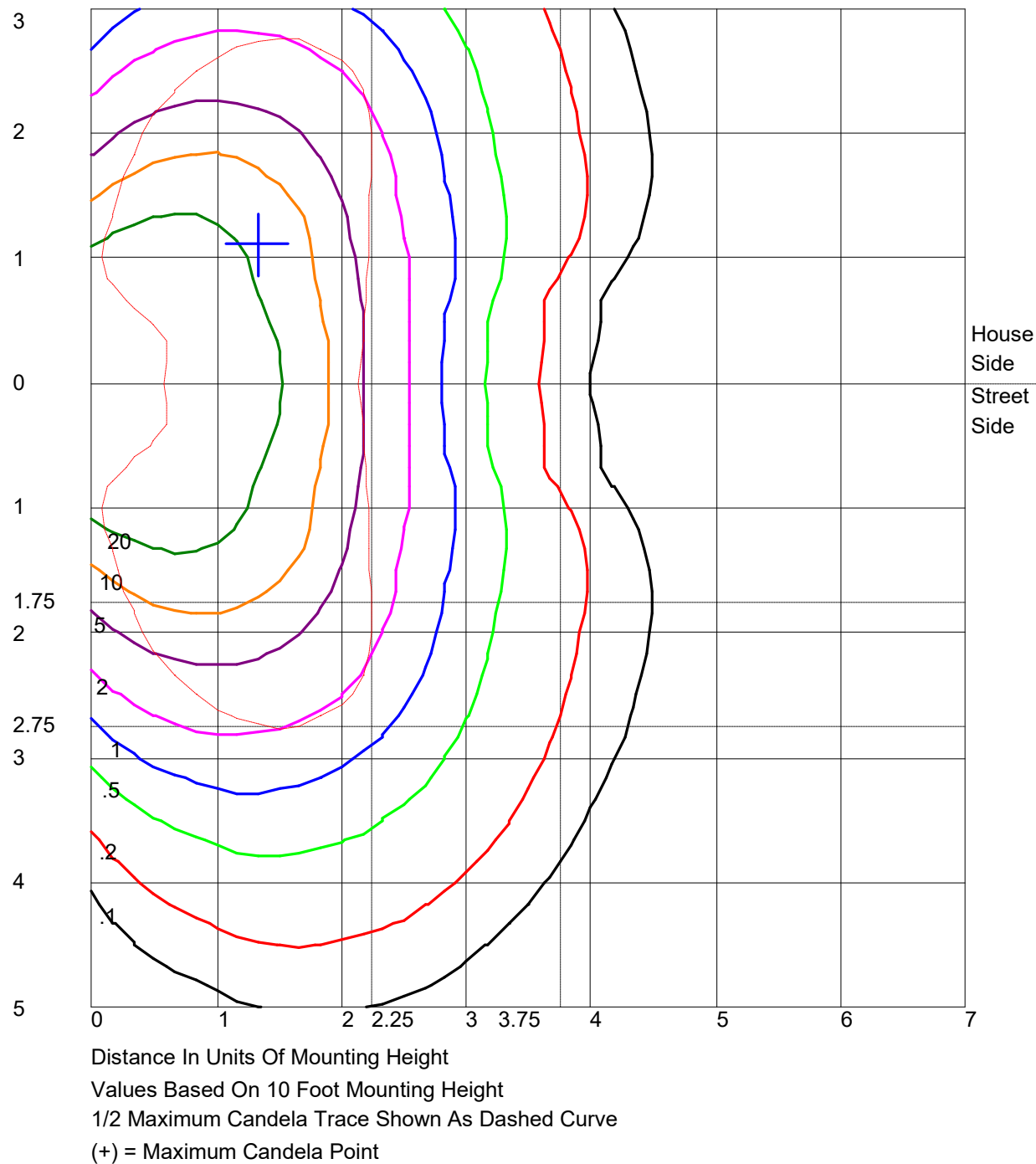
	Lumens	Percent Of Luminaire
Downward Street Side	12711.4	50.0
Downward House Side	12711.4	50.0
Downward Total	25422.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25422.8	100.0

POLAR GRAPH

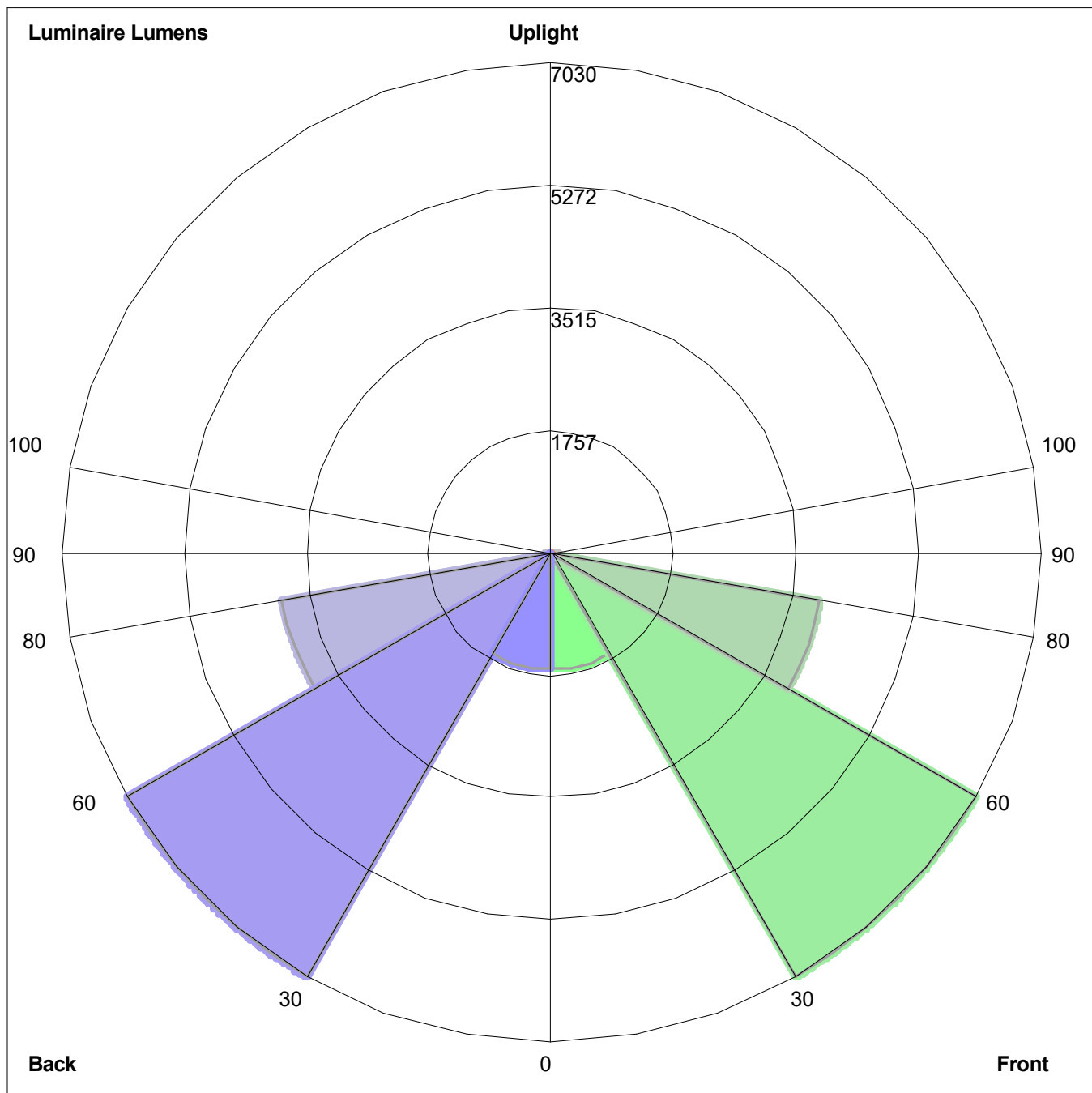


Maximum Candela = 14460 Located At Horizontal Angle = 130, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (130 - 310) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1673.3, Medium=7029.6, High= 3917.0, Very High=91.5
Back: Low=1673.3, Medium=7029.6, High= 3917.0, Very High=91.5
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4