



IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-3-LED-23L-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3043

[TESTLAB] TUV SUD America

[TESTDATE] 2/7/2017 2:06:08 PM

[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] TEL22-3-LED-23L-45

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26218
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	221.16
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18299
Maximum Candela Angle	330H 65V
Maximum Candela (<90 Degrees Vertical)	18299
Maximum Candela Angle (<90 Degrees Vertical)	330H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	357 (1.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2468.6	N.A.	9.4
FM - Front-Medium (30-60)	10836.1	N.A.	41.3
FH - Front-High (60-80)	6267.5	N.A.	23.9
FVH - Front-Very High (80-90)	38.8	N.A.	0.1
BL - Back-Low (0-30)	1887.8	N.A.	7.2
BM - Back-Medium (30-60)	3804.0	N.A.	14.5
BH - Back-High (60-80)	901.0	N.A.	3.4
BVH - Back-Very High (80-90)	14.3	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	26218.1	N.A.	100.0
BUG Rating	B3-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0	4880	4880	4880	4880	4880	4880	4880	4880	4880	4880
5	5224	5166	5147	5115	5077	5027	4988	4947	4912	4876
10	5646	5546	5454	5369	5287	5215	5141	5061	4977	4908
15	6134	5949	5775	5637	5535	5422	5300	5186	5073	4967
20	6711	6426	6152	5941	5785	5625	5472	5324	5177	5058
25	7820	7356	6842	6447	6105	5830	5624	5458	5307	5177
30	9233	8734	8007	7306	6585	6081	5761	5591	5474	5371
35	10662	10040	9209	8361	7262	6374	5916	5764	5680	5623
40	11993	11358	10533	9520	8118	6823	6210	6009	5906	5882
45	12867	12386	11805	10842	9361	7638	6624	6282	6096	6066
50	13866	13501	13184	12180	10581	8587	7256	6754	6313	6139
55	14686	14822	14917	14228	12636	10363	8642	7628	6550	6041
60	14919	15829	16811	16507	15141	13307	11270	8451	5728	4995
65	8612	12073	16028	18299	17083	16256	14041	5500	3161	2823
70	1389	2186	3316	8432	13736	13613	4775	1215	964	960
75	433	629	865	1310	3118	3113	793	321	267	313
80	139	188	261	293	357	337	175	136	115	102
85	24	41	39	39	37	34	31	26	23	20
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	4880	4880	4880	4880	4880	4880	4880	4880	4880	4880
5	4840	4814	4792	4780	4767	4759	4756	4752	4763	4752
10	4841	4787	4730	4685	4659	4665	4661	4660	4674	4660
15	4876	4794	4713	4630	4555	4497	4470	4450	4486	4450
20	4941	4836	4716	4576	4440	4305	4209	4162	4205	4162
25	5042	4906	4713	4490	4242	4010	3813	3702	3765	3702
30	5245	5028	4726	4314	3853	3441	3160	3033	3096	3033
35	5566	5314	4728	3907	3184	2743	2563	2559	2616	2559
40	5956	5703	4672	3243	2468	2256	2194	2286	2361	2286
45	6322	5988	4319	2600	2111	1965	1899	1901	2032	1901
50	6418	5794	3512	2296	1898	1739	1672	1685	1814	1685
55	5966	4658	2844	2089	1707	1569	1524	1589	1768	1589

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CANDELA TABULATION - (Cont.)

60	4630	3256	2337	1808	1549	1382	1200	1143	1257	1143
65	2769	2033	1620	1332	1027	872	788	733	797	733
70	928	827	736	604	558	554	518	544	605	544
75	337	339	321	292	300	318	291	272	348	272
80	106	104	95	88	95	88	73	54	71	54
85	17	14	10	8	7	5	3	2	3	2
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	4880	4880	4880	4880	4880	4880	4880	4880	4880	4880
5	4756	4759	4767	4780	4792	4814	4840	4876	4912	4947
10	4661	4665	4659	4685	4730	4787	4841	4908	4977	5061
15	4470	4497	4555	4630	4713	4794	4876	4967	5073	5186
20	4209	4305	4440	4576	4716	4836	4941	5058	5177	5324
25	3813	4010	4242	4490	4713	4906	5042	5177	5307	5458
30	3160	3441	3853	4314	4726	5028	5245	5371	5474	5591
35	2563	2743	3184	3907	4728	5314	5566	5623	5680	5764
40	2194	2256	2468	3243	4672	5703	5956	5882	5906	6009
45	1899	1965	2111	2600	4319	5988	6322	6066	6096	6282
50	1672	1739	1898	2296	3512	5794	6418	6139	6313	6754
55	1524	1569	1707	2089	2844	4658	5966	6041	6550	7628
60	1200	1382	1549	1808	2337	3256	4630	4995	5728	8451
65	788	872	1027	1332	1620	2033	2769	2823	3161	5500
70	518	554	558	604	736	827	928	960	964	1215
75	291	318	300	292	321	339	337	313	267	321
80	73	88	95	88	95	104	106	102	115	136
85	3	5	7	8	10	14	17	20	23	26
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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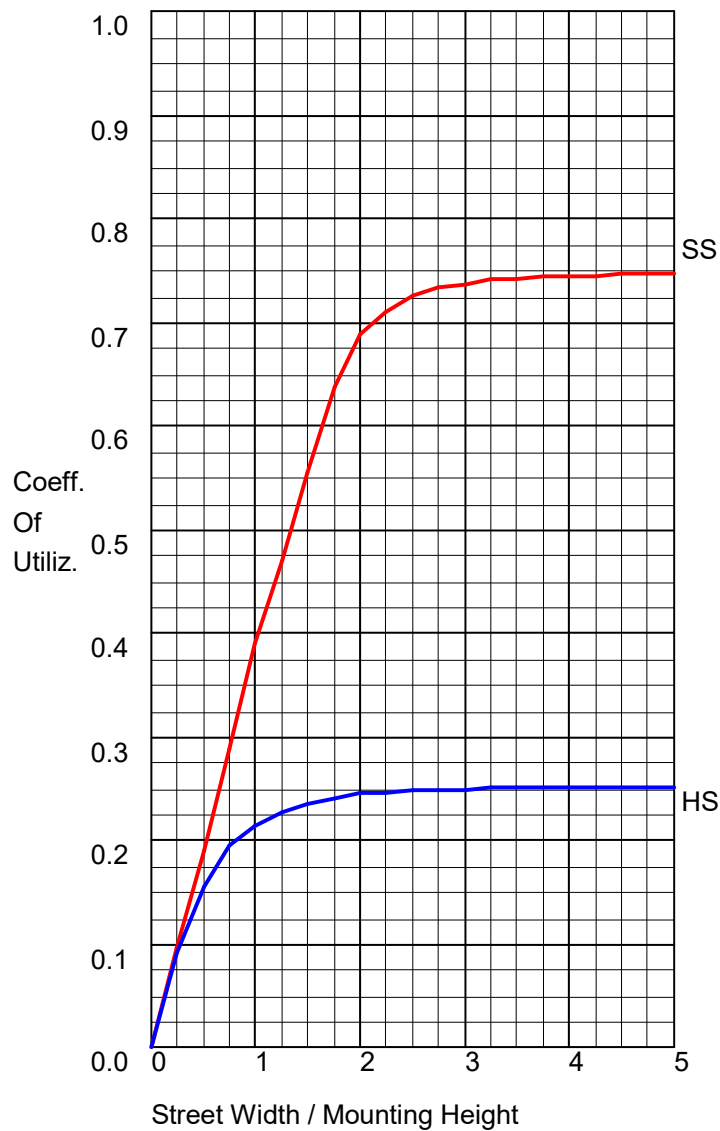
CANDELA TABULATION - (Cont.)

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. Angles **Horizontal Angles**

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	4880	4880	4880	4880	4880	4880	4880
5	4988	5027	5077	5115	5147	5166	5224
10	5141	5215	5287	5369	5454	5546	5646
15	5300	5422	5535	5637	5775	5949	6134
20	5472	5625	5785	5941	6152	6426	6711
25	5624	5830	6105	6447	6842	7356	7820
30	5761	6081	6585	7306	8007	8734	9233
35	5916	6374	7262	8361	9209	10040	10662
40	6210	6823	8118	9520	10533	11358	11993
45	6624	7638	9361	10842	11805	12386	12867
50	7256	8587	10581	12180	13184	13501	13866
55	8642	10363	12636	14228	14917	14822	14686
60	11270	13307	15141	16507	16811	15829	14919
65	14041	16256	17083	18299	16028	12073	8612
70	4775	13613	13736	8432	3316	2186	1389
75	793	3113	3118	1310	865	629	433
80	175	337	357	293	261	188	139
85	31	34	37	39	39	41	24
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

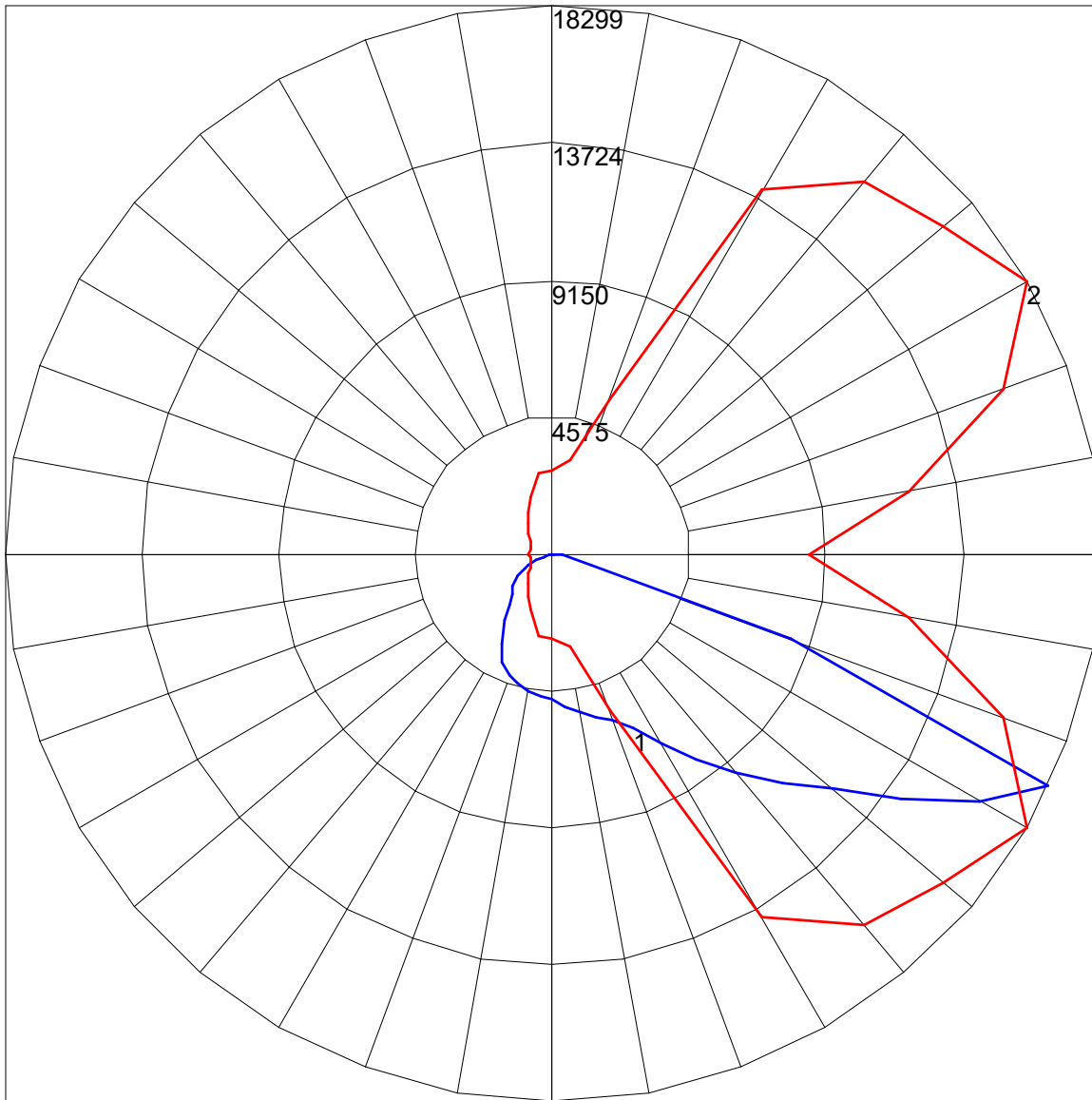
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

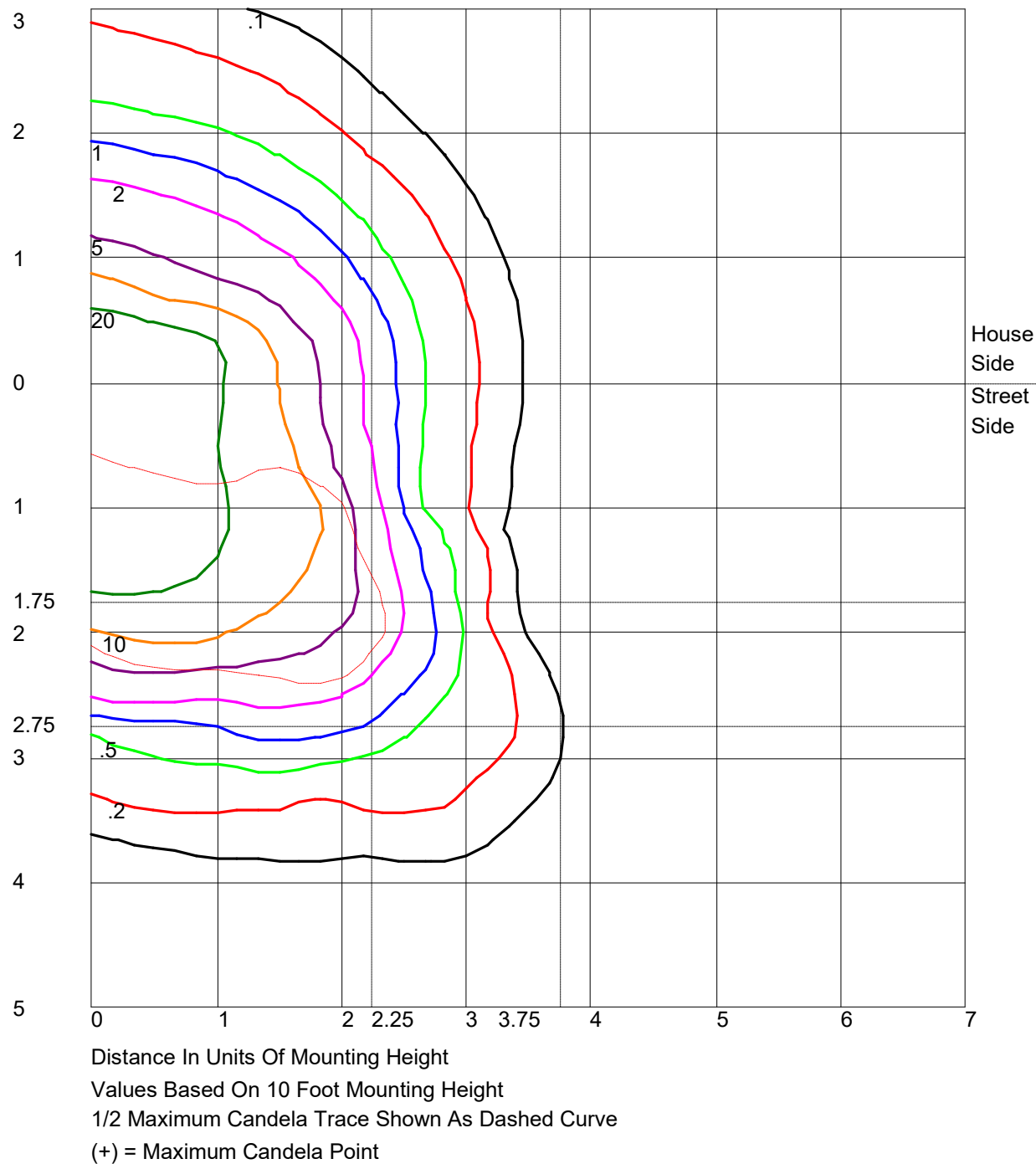
	Lumens	Percent Of Luminaire
Downward Street Side	19611.0	74.8
Downward House Side	6607.0	25.2
Downward Total	26218.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	26218.0	100.0

POLAR GRAPH

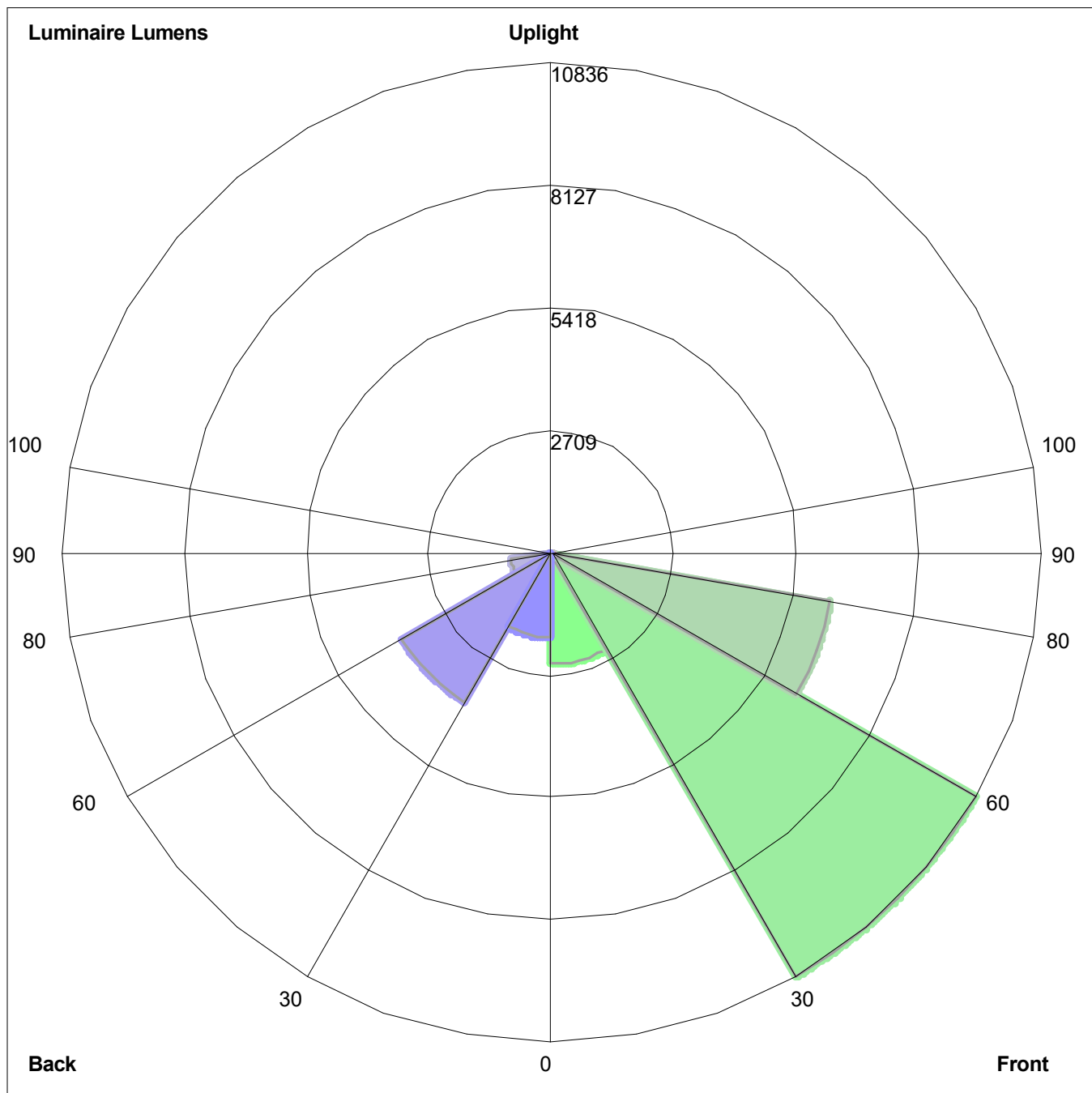


Maximum Candela = 18299 Located At Horizontal Angle = 330, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (330 - 150) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2468.6, Medium=10836.1, High=6267.5, Very High=38.8
Back: Low=1887.8, Medium= 3804.0, High=901.0, Very High=14.3
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3