



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3046

[TESTLAB] TUV SUD America

[TESTDATE] 2/8/2017 3:01:37 PM

[ISSUEDATE] 11/15/2019

[MANUFAC] LSI INDUSTRIES, INC.

[_SEARCH_SOURCE] LED

[_SEARCH_APPLICATION] Outdoor

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

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

[LUMCAT] TEL22-3L-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	25540
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	221.58
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20565
Maximum Candela Angle	130H 70V
Maximum Candela (<90 Degrees Vertical)	20565
Maximum Candela Angle (<90 Degrees Vertical)	130H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	559 (2.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2370.3	N.A.	9.3
FM - Front-Medium (30-60)	6594.2	N.A.	25.8
FH - Front-High (60-80)	3768.4	N.A.	14.8
FVH - Front-Very High (80-90)	37.0	N.A.	0.1
BL - Back-Low (0-30)	2370.3	N.A.	9.3
BM - Back-Medium (30-60)	6594.2	N.A.	25.8
BH - Back-High (60-80)	3768.4	N.A.	14.8
BVH - Back-Very High (80-90)	37.0	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	25539.8	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	5791	5791	5791	5791	5791	5791	5791	5791	5791	5791
5	5784	5816	5826	5840	5858	5864	5872	5874	5873	5881
10	5835	5870	5888	5901	5915	5921	5932	5942	5950	5959
15	5952	5995	6034	6049	6057	6074	6087	6096	6114	6130
20	6128	6184	6217	6246	6271	6295	6301	6280	6273	6271
25	6388	6465	6465	6475	6492	6517	6514	6495	6484	6486
30	6804	6875	6836	6763	6717	6726	6741	6709	6658	6644
35	7318	7390	7255	7068	6947	6912	6898	6874	6859	6900
40	7889	7909	7662	7383	7100	6958	6975	7039	7066	7145
45	8206	8364	8060	7638	7247	7003	6963	7096	7277	7404
50	7921	8548	8470	8003	7480	7047	7132	7512	8037	8266
55	6888	8111	8741	8591	8122	7544	7850	8790	9873	10147
60	4998	6434	7812	9507	10147	9381	10087	11946	13448	13570
65	2686	3754	4791	8217	14497	15153	15698	18025	17224	15623
70	902	1126	1080	2364	11156	20565	17126	6118	2568	1950
75	324	348	383	512	1696	7697	2723	1047	756	585
80	101	134	159	175	251	559	322	229	220	168
85	20	31	31	30	30	30	26	25	24	24
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	5791	5791	5791	5791	5791	5791	5791	5791	5791	5791
5	5873	5874	5872	5864	5858	5840	5826	5816	5784	5770
10	5950	5942	5932	5921	5915	5901	5888	5870	5835	5806
15	6114	6096	6087	6074	6057	6049	6034	5995	5952	5867
20	6273	6280	6301	6295	6271	6246	6217	6184	6128	5965
25	6484	6495	6514	6517	6492	6475	6465	6465	6388	6139
30	6658	6709	6741	6726	6717	6763	6836	6875	6804	6409
35	6859	6874	6898	6912	6947	7068	7255	7390	7318	6739
40	7066	7039	6975	6958	7100	7383	7662	7909	7889	7008
45	7277	7096	6963	7003	7247	7638	8060	8364	8206	6984
50	8037	7512	7132	7047	7480	8003	8470	8548	7921	6354
55	9873	8790	7850	7544	8122	8591	8741	8111	6888	5184

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CANDELA TABULATION - (Cont.)

60	13448	11946	10087	9381	10147	9507	7812	6434	4998	3778
65	17224	18025	15698	15153	14497	8217	4791	3754	2686	2172
70	2568	6118	17126	20565	11156	2364	1081	1126	902	877
75	756	1047	2723	7697	1696	512	383	348	324	340
80	220	229	322	559	251	175	159	134	101	106
85	24	25	26	30	30	30	31	31	20	15
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	5791	5791	5791	5791	5791	5791	5791	5791	5791	5791
5	5736	5694	5651	5617	5577	5555	5543	5537	5543	5555
10	5703	5596	5479	5379	5303	5235	5199	5182	5199	5235
15	5685	5470	5266	5084	4955	4874	4842	4825	4842	4874
20	5647	5325	5000	4728	4489	4325	4248	4235	4248	4325
25	5648	5124	4618	4208	3912	3752	3694	3699	3694	3752
30	5664	4825	4095	3668	3487	3379	3359	3382	3359	3379
35	5623	4388	3602	3313	3184	3120	3143	3226	3143	3120
40	5436	3941	3278	3026	2955	2911	3277	3408	3277	2911
45	4974	3604	3111	2887	2751	2635	2577	2589	2577	2635
50	4410	3340	3214	2618	2409	2278	2246	2304	2246	2278
55	3800	2982	2760	2272	2146	1945	1902	1985	1902	1945
60	3029	2427	2038	1906	1761	1499	1503	2035	1503	1499
65	1975	1476	1263	1247	1275	1350	1324	1848	1324	1350
70	901	775	777	771	875	1284	1187	1675	1187	1284
75	389	418	429	481	600	747	720	1083	720	747
80	126	147	167	198	224	322	269	310	269	322
85	16	19	22	27	29	34	34	34	34	34
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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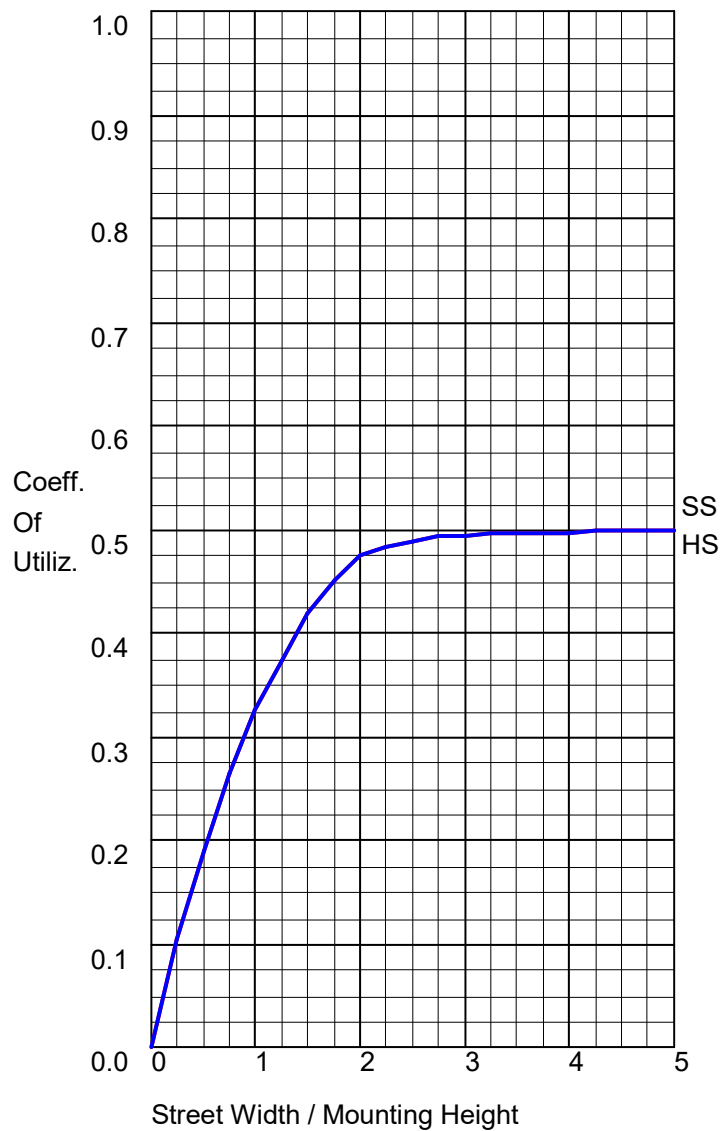
CANDELA TABULATION - (Cont.)

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	5791	5791	5791	5791	5791	5791	5791
5	5577	5617	5651	5694	5736	5770	5784
10	5303	5379	5479	5596	5703	5806	5835
15	4955	5084	5266	5470	5685	5867	5952
20	4489	4728	5000	5325	5647	5965	6128
25	3912	4208	4618	5124	5648	6139	6388
30	3487	3668	4095	4825	5664	6409	6804
35	3184	3313	3602	4388	5623	6739	7318
40	2955	3026	3278	3941	5436	7008	7889
45	2751	2887	3111	3604	4974	6984	8206
50	2409	2618	3214	3340	4410	6354	7921
55	2146	2272	2760	2982	3800	5184	6888
60	1761	1906	2038	2427	3029	3778	4998
65	1275	1247	1263	1476	1975	2172	2686
70	875	771	777	775	901	877	902
75	600	481	429	418	389	340	324
80	224	198	167	147	126	106	101
85	29	27	22	19	16	15	20
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

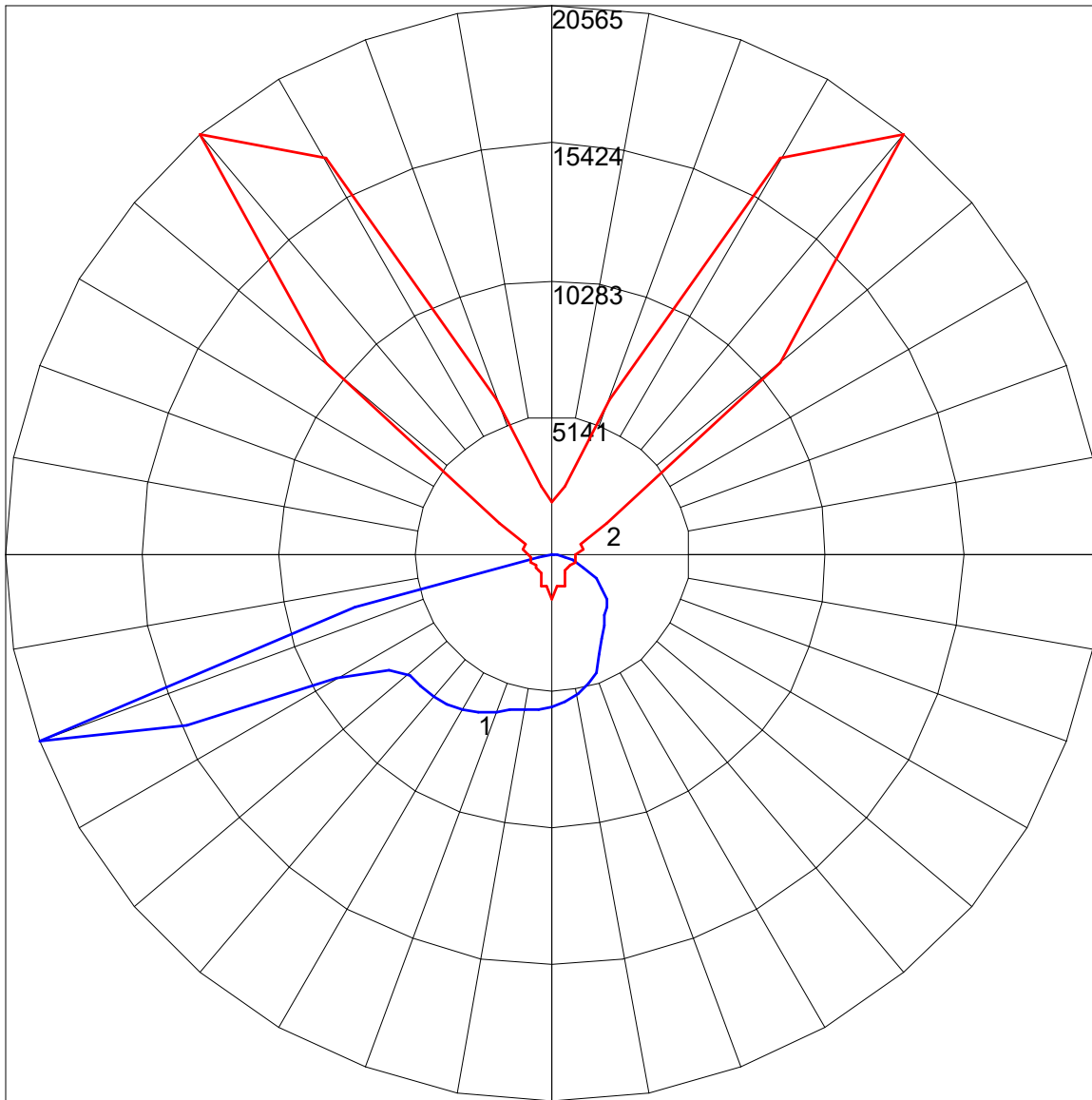
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

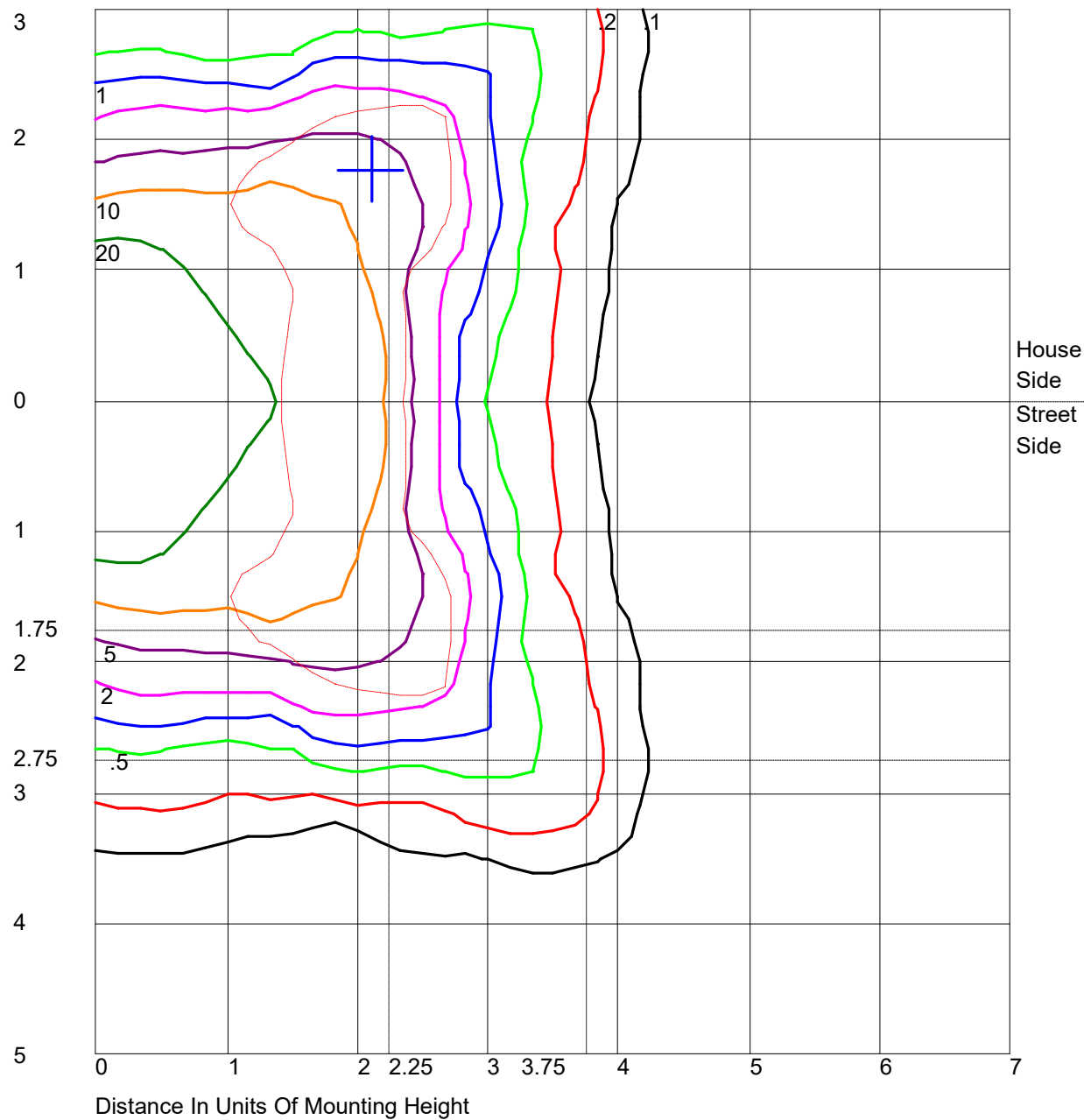
	Lumens	Percent Of Luminaire
Downward Street Side	12769.8	50.0
Downward House Side	12769.8	50.0
Downward Total	25539.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25539.6	100.0

POLAR GRAPH

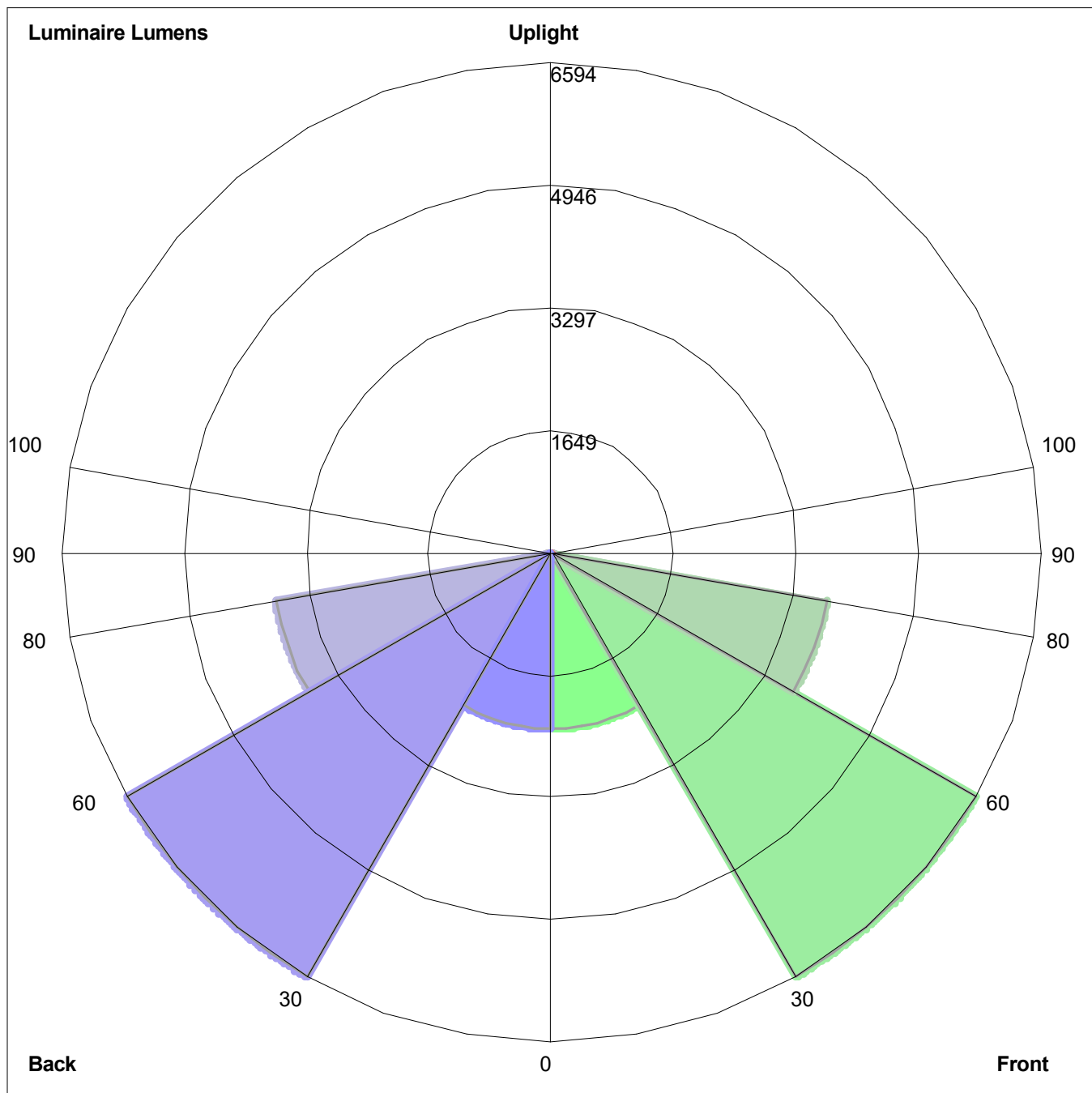


Maximum Candela = 20565 Located At Horizontal Angle = 130, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (130 - 310) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2370.3, Medium=6594.2, High=3768.4, Very High=37.0
Back: Low=2370.3, Medium=6594.2, High=3768.4, Very High=37.0
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4