



IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-4L-LED-23L-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3045

[TESTLAB] TUV SUD America

[TESTDATE] 2/8/2017 9:50:03 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] TEL22-4L-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	23575
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	221.41
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12059
Maximum Candela Angle	140H 70V
Maximum Candela (<90 Degrees Vertical)	12059
Maximum Candela Angle (<90 Degrees Vertical)	140H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3848 (16.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1777.0	N.A.	7.5
FM - Front-Medium (30-60)	5630.0	N.A.	23.9
FH - Front-High (60-80)	4234.7	N.A.	18.0
FVH - Front-Very High (80-90)	145.8	N.A.	0.6
BL - Back-Low (0-30)	1777.0	N.A.	7.5
BM - Back-Medium (30-60)	5630.0	N.A.	23.9
BH - Back-High (60-80)	4234.7	N.A.	18.0
BVH - Back-Very High (80-90)	145.8	N.A.	0.6
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	23575.0	N.A.	100.0
BUG Rating	B4-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	3947	3947	3947	3947	3947	3947	3947	3947	3947	3947
5	3943	3986	4017	4045	4073	4094	4116	4131	4138	4145
10	3988	4045	4089	4131	4170	4209	4251	4292	4323	4342
15	4090	4168	4233	4282	4312	4325	4353	4401	4455	4477
20	4207	4325	4423	4486	4497	4499	4512	4566	4628	4655
25	4336	4509	4647	4724	4751	4774	4792	4817	4845	4869
30	4469	4707	4882	4967	5006	5065	5091	5073	5054	5068
35	4626	4963	5129	5172	5263	5358	5401	5381	5353	5351
40	4799	5312	5490	5515	5560	5691	5799	5805	5748	5710
45	5087	5726	5950	6054	6008	6020	6074	6035	6013	5989
50	5467	6364	6695	6666	6375	6254	6245	6325	6402	6494
55	5668	6822	7456	7536	7089	6619	6872	7252	7520	7590
60	5374	6788	7957	8488	8067	7763	8347	8826	8965	9004
65	4507	6384	8154	9213	9884	10245	10108	9269	8712	8275
70	2964	5135	7504	9407	12059	11445	9521	7135	4877	4087
75	1153	2855	5243	8048	10035	8639	4059	2185	1515	1240
80	249	744	1604	2752	3848	2287	825	570	379	317
85	45	73	76	127	148	99	53	45	43	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
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>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	3947	3947	3947	3947	3947	3947	3947	3947	3947	3947
5	4138	4131	4116	4094	4073	4045	4017	3986	3943	3919
10	4323	4292	4251	4209	4170	4131	4089	4045	3988	3934
15	4455	4401	4353	4325	4312	4282	4233	4168	4090	4000
20	4628	4566	4512	4499	4497	4486	4423	4325	4207	4077
25	4845	4817	4792	4774	4751	4724	4647	4509	4336	4158
30	5054	5073	5091	5065	5006	4967	4882	4707	4469	4233
35	5353	5381	5401	5358	5263	5172	5129	4963	4626	4310
40	5748	5805	5799	5691	5560	5515	5490	5312	4799	4417
45	6013	6035	6074	6020	6008	6054	5950	5726	5087	4624
50	6402	6325	6245	6254	6375	6666	6695	6364	5467	4882
55	7520	7252	6872	6619	7089	7536	7456	6822	5668	4668

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CANDELA TABULATION - (Cont.)

60	8965	8826	8347	7763	8067	8488	7957	6788	5374	3538
65	8712	9269	10108	10245	9884	9213	8154	6384	4507	2258
70	4877	7135	9521	11445	12059	9407	7504	5135	2964	1353
75	1515	2185	4059	8639	10035	8048	5243	2855	1153	661
80	379	570	825	2287	3848	2752	1604	744	249	213
85	43	45	53	99	148	127	76	73	45	36
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	3947	3947	3947	3947	3947	3947	3947	3947	3947	3947
5	3880	3845	3816	3790	3767	3756	3751	3749	3751	3756
10	3862	3803	3753	3718	3695	3678	3672	3670	3672	3678
15	3897	3820	3774	3746	3733	3730	3733	3730	3733	3730
20	3954	3888	3856	3843	3830	3816	3815	3815	3815	3816
25	4021	3959	3930	3922	3916	3917	3904	3913	3904	3917
30	4079	4015	4011	4013	4042	4050	4056	4068	4056	4050
35	4126	4085	4098	4143	4150	4097	4052	4086	4052	4097
40	4223	4168	4110	3993	3764	3579	3485	3553	3485	3579
45	4340	4049	3736	3311	3030	2849	2761	2794	2761	2849
50	4168	3452	2953	2653	2562	2626	2686	2700	2686	2626
55	3334	2608	2401	2504	2631	2816	2905	2922	2905	2816
60	2285	2167	2261	2505	2704	2921	3028	2986	3028	2921
65	1811	1974	2036	2267	2452	2650	2801	2807	2801	2650
70	1487	1643	1621	1800	2185	2405	2439	2431	2439	2405
75	930	1071	1073	1208	1427	1544	1538	1504	1538	1544
80	306	410	462	464	524	578	560	534	560	578
85	37	39	39	41	39	37	39	39	39	37
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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PHOTOMETRIC FILENAME : TEL22-4L-LED-23L-45.IES

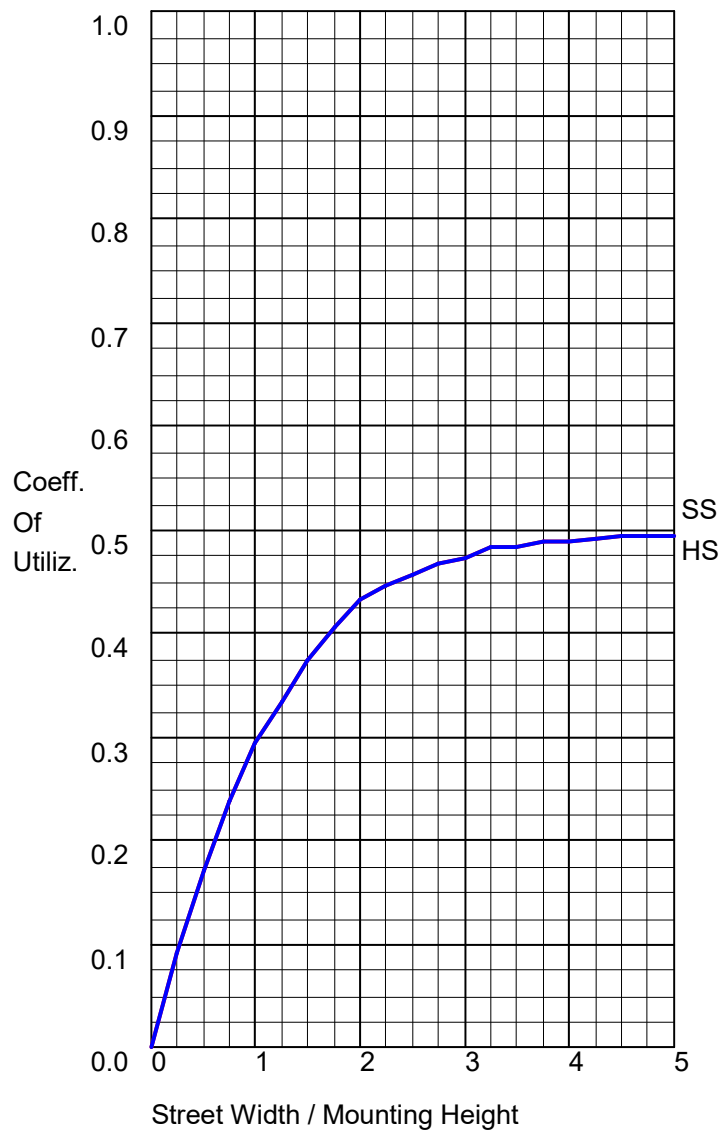
CANDELA TABULATION - (Cont.)

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	3947	3947	3947	3947	3947	3947	3947
5	3767	3790	3816	3845	3880	3919	3943
10	3695	3718	3753	3803	3862	3934	3988
15	3733	3746	3774	3820	3897	4000	4090
20	3830	3843	3856	3888	3954	4077	4207
25	3916	3922	3930	3959	4021	4158	4336
30	4042	4013	4011	4015	4079	4233	4469
35	4150	4143	4098	4085	4126	4310	4626
40	3764	3993	4110	4168	4223	4417	4799
45	3030	3311	3736	4049	4340	4624	5087
50	2562	2653	2953	3452	4168	4882	5467
55	2631	2504	2401	2608	3334	4668	5668
60	2704	2505	2261	2167	2285	3538	5374
65	2452	2267	2036	1974	1811	2258	4507
70	2185	1800	1621	1643	1487	1353	2964
75	1427	1208	1073	1071	930	661	1153
80	524	464	462	410	306	213	249
85	39	41	39	39	37	36	45
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

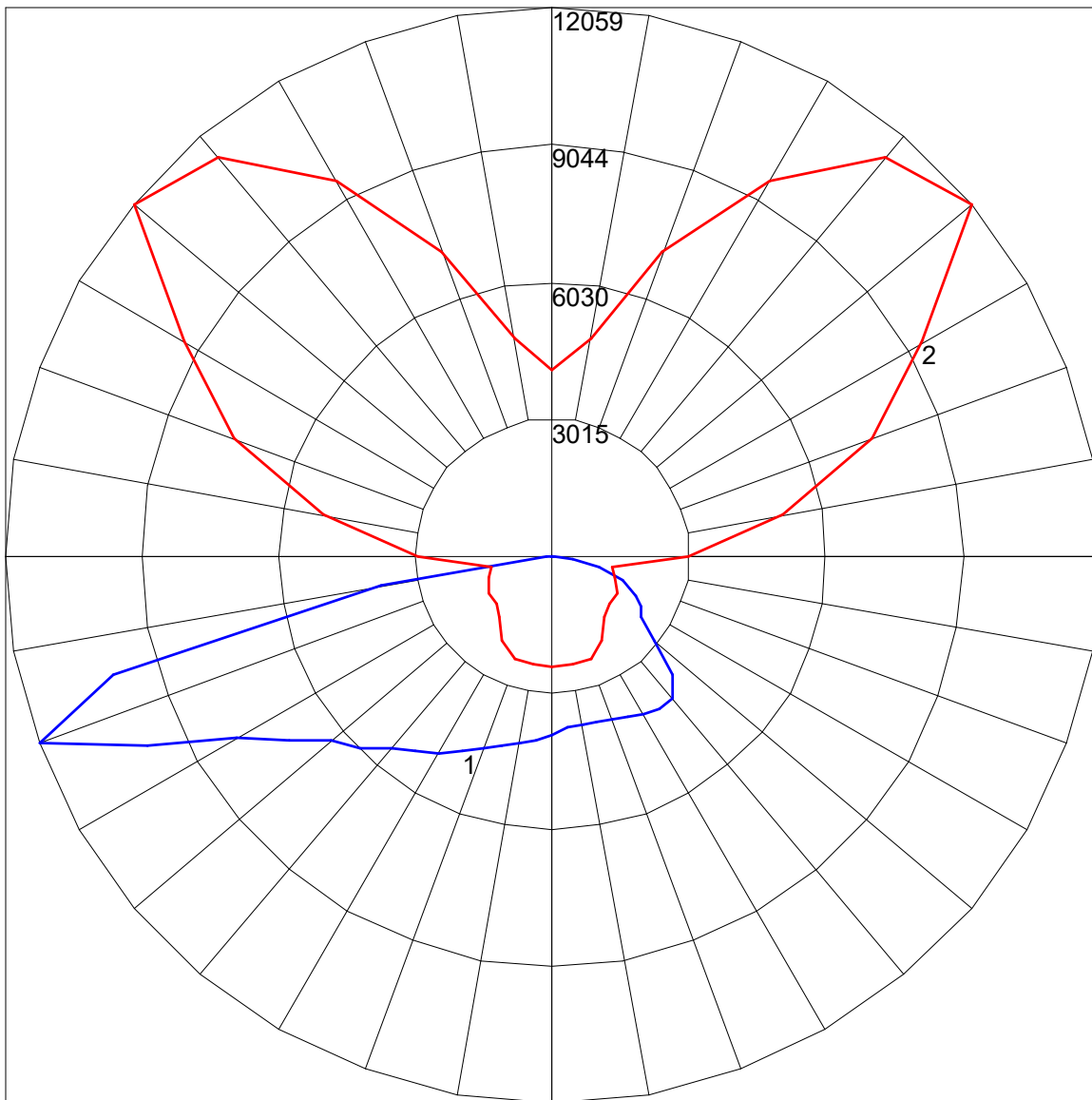
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

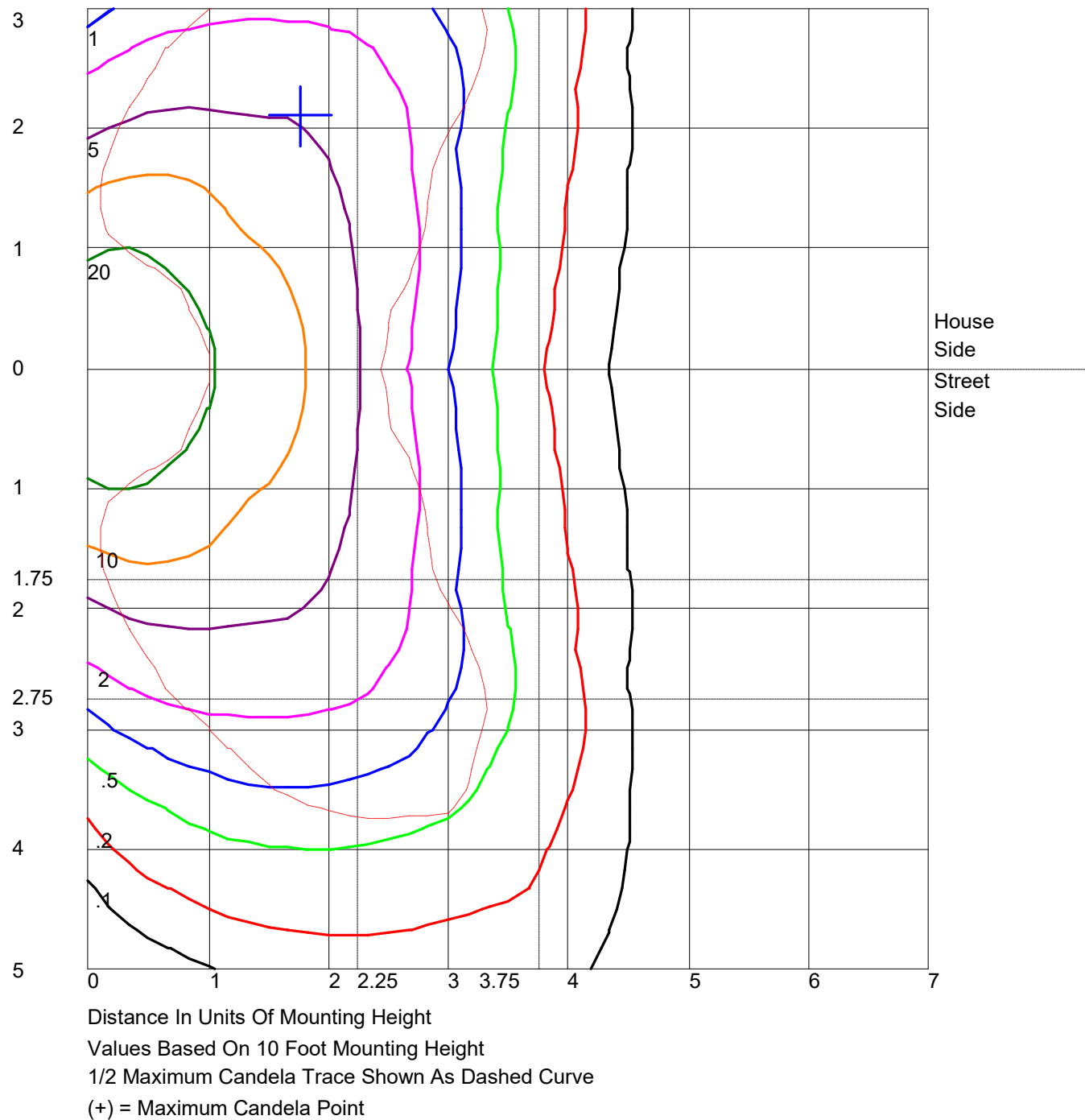
	Lumens	Percent Of Luminaire
Downward Street Side	11787.5	50.0
Downward House Side	11787.5	50.0
Downward Total	23575.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	23575.0	100.0

POLAR GRAPH

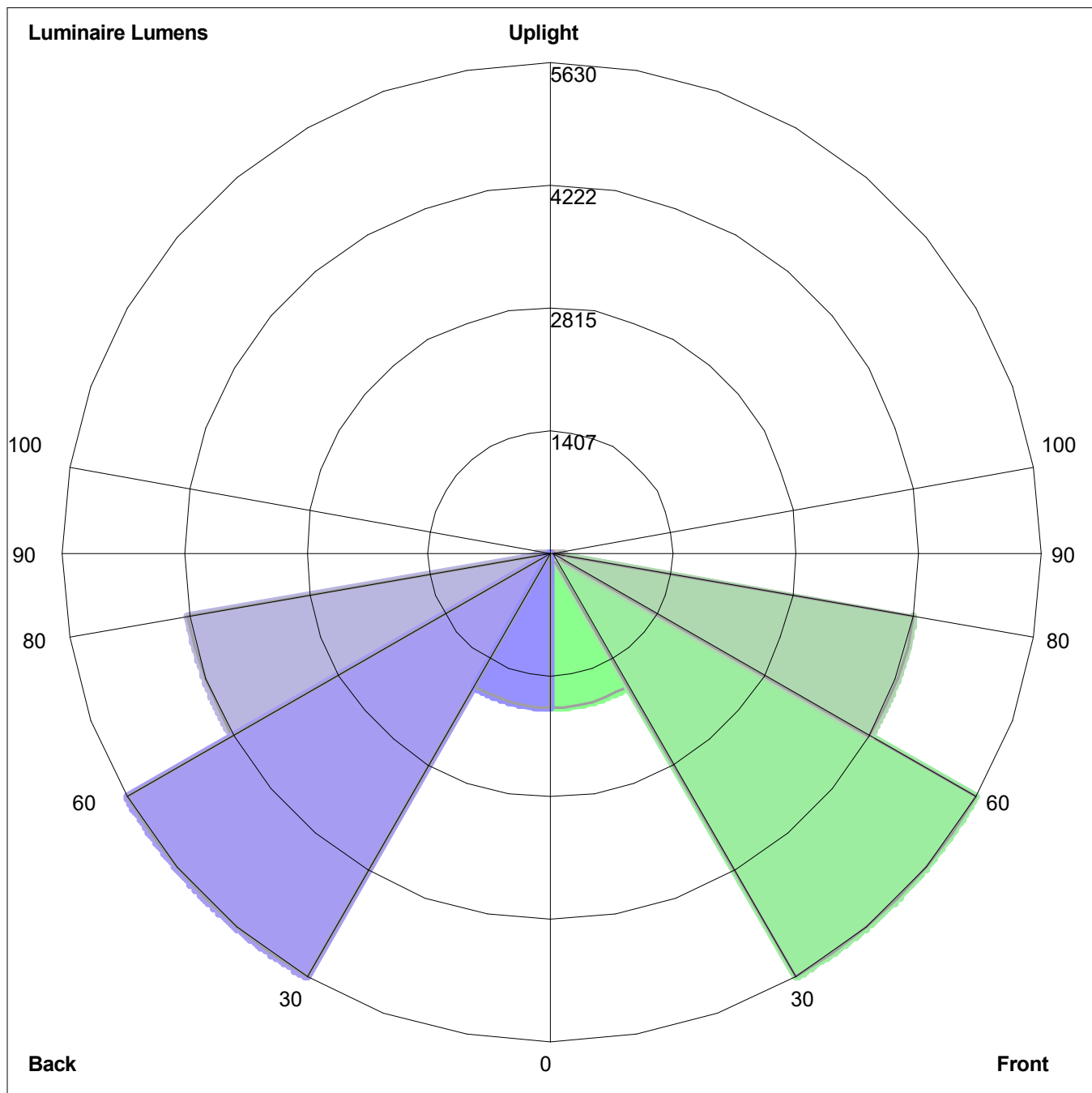


Maximum Candela = 12059 Located At Horizontal Angle = 140, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (140 - 320) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1777.0, Medium= 5630.0, High=4234.7, Very High=145.8
Back: Low= 1777.0, Medium= 5630.0, High=4234.7, Very High=145.8
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4