



IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-25L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11753
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/24/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-FT-LED-25L-40
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25215
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	228
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14061
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	14061
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	206 (0.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4376 (17.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1160.5	N.A.	4.6
FM - Front-Medium (30-60)	7975.8	N.A.	31.6
FH - Front-High (60-80)	8353.5	N.A.	33.1
FVH - Front-Very High (80-90)	499.2	N.A.	2.0
BL - Back-Low (0-30)	1158.8	N.A.	4.6
BM - Back-Medium (30-60)	4125.4	N.A.	16.4
BH - Back-High (60-80)	1728.3	N.A.	6.9
BVH - Back-Very High (80-90)	151.1	N.A.	0.6
UL - Uplight-Low (90-100)	18.6	N.A.	0.1
UH - Uplight-High (100-180)	43.8	N.A.	0.2
Total	25215.0	N.A.	100.0
BUG Rating	B3-U2-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>40</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	2244	2244	2244	2244	2244	2244	2244	2244	2244	2244
2.5	2260	2252	2220	2227	2206	2204	2210	2206	2210	2219
5.0	2095	2057	2065	2126	2111	2098	2109	2041	2052	2058
7.5	2001	1964	2008	1939	1900	1902	1892	1946	2059	2082
10.0	1986	1928	1966	1846	1880	1903	1933	1997	2013	2100
12.5	2106	2088	2000	1922	2006	1960	1982	2067	2063	2172
15.0	2167	2190	2132	2161	2224	2102	2099	2164	2171	2308
17.5	2286	2309	2225	2310	2336	2349	2346	2272	2306	2459
20.0	2550	2548	2545	2525	2535	2500	2511	2523	2485	2636
22.5	2779	2723	2807	2858	2888	2757	2767	2825	2714	2828
25.0	3175	3065	3192	3153	3164	3247	3164	3080	3045	3050
27.5	3637	3788	3774	3584	3537	3605	3566	3419	3327	3312
30.0	4241	4156	4040	4070	4028	3925	3994	3877	3660	3580
32.5	5003	5062	4689	4457	4523	4541	4367	4343	4068	3844
35.0	5698	5578	5412	5128	4988	5020	4964	4830	4399	4245
37.5	6430	6399	5984	5666	5617	5474	5498	5296	4849	4422
40.0	6848	6853	6679	6449	6247	6084	6021	5823	5323	4738
42.5	7274	7277	7149	7076	6847	6711	6585	6313	5675	4921
45.0	7692	7707	7637	7599	7467	7410	7229	6867	6049	5165
47.5	8098	8132	8121	8059	8059	7970	7851	7446	6518	5473
50.0	8433	8484	8517	8579	8647	8541	8449	8072	7106	5834
52.5	8706	8718	8834	8984	9160	9131	9078	8805	7752	6310
55.0	8867	8876	9089	9297	9671	9622	9677	9572	8552	6894
57.5	8967	8986	9244	9529	10038	10139	10275	10439	9373	7533
60.0	9007	9033	9334	9701	10454	10667	10955	11314	10227	8140
62.5	9118	9158	9488	9861	10908	11269	11682	12173	11015	8605
65.0	9387	9436	9851	10267	11501	12063	12503	12902	11499	8645
67.5	9656	9745	10353	11110	12456	13008	13246	13290	11173	7684
70.0	9132	9233	10189	12092	13622	13886	13692	12795	9450	5700
72.5	7576	7762	8927	11270	13865	14061	13459	10739	6618	3440
75.0	5066	5340	6744	9033	11927	12042	11024	7559	3963	2219
77.5	2735	2923	3943	5918	7954	7950	7234	4544	2524	1487
80.0	1384	1540	2442	3423	4285	4376	3901	2803	1598	914
82.5	838	893	1576	2013	2003	2329	2213	1483	950	509
85.0	622	665	1034	1228	1334	1189	1011	652	455	278
87.5	407	438	681	620	720	500	230	228	152	111
90.0	110	155	206	72	64	41	28	14	9	10
92.5	17	19	15	12	10	11	10	9	8	9
95.0	10	9	10	11	10	11	10	8	7	8
97.5	8	8	9	10	9	10	9	8	7	8
100.0	8	7	8	8	8	9	9	8	7	8
102.5	7	6	7	7	7	8	8	7	7	8
105.0	6	6	7	7	7	7	8	7	7	8
107.5	7	6	7	7	7	7	7	7	7	8
110.0	7	7	7	7	7	7	7	7	7	8
112.5	8	7	7	7	7	7	8	7	7	8
115.0	9	8	8	8	8	8	8	7	8	9
117.5	9	9	9	8	8	8	8	7	8	9
120.0	10	10	9	9	9	8	9	8	8	9
122.5	11	10	10	10	9	9	9	8	8	10
125.0	11	11	11	11	10	9	9	8	9	10
127.5	11	11	11	11	11	10	10	9	9	11
130.0	12	12	12	11	11	11	10	9	9	12

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CANDELA TABULATION - (Cont.)

132.5	13	12	12	12	11	11	11	9	9	12
135.0	11	11	11	11	10	10	9	8	9	11
137.5	6	6	6	6	6	7	7	6	6	8
140.0	2	2	3	4	5	5	5	5	5	5
142.5	2	2	3	4	4	4	4	4	5	5
145.0	2	2	3	4	4	4	4	4	4	5
147.5	2	2	3	4	4	4	4	4	4	5
150.0	2	2	3	4	4	4	4	4	4	5
152.5	2	1	3	4	4	4	4	4	4	4
155.0	2	1	3	4	4	4	3	4	4	4
157.5	2	1	3	4	4	3	3	3	4	4
160.0	2	1	3	3	3	3	3	3	3	4
162.5	1	1	2	3	3	3	3	3	3	4
165.0	1	1	3	3	3	3	3	3	3	4
167.5	1	1	3	3	3	3	3	3	3	4
170.0	1	1	2	3	3	3	3	3	3	4
172.5	1	1	3	3	4	4	4	3	4	4
175.0	1	1	2	3	4	4	4	4	4	4
177.5	1	1	2	3	4	4	4	4	4	4
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles **Horizontal Angles**

	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	2244	2244	2244	2244	2244	2244	2244	2244	2244	2244
2.5	2230	2235	2226	2217	2235	2240	2243	2253	2238	2254
5.0	2089	2092	2084	2094	2107	2181	2203	2161	2171	2112
7.5	2070	2075	2091	2189	2198	2078	2039	2003	2048	2064
10.0	2077	2077	2130	2288	2106	2074	2035	1950	2002	2062
12.5	2181	2205	2257	2297	2157	2093	2061	2134	2248	2265
15.0	2288	2342	2353	2344	2201	2153	2285	2376	2455	2511
17.5	2489	2481	2494	2418	2249	2355	2516	2555	2584	2619
20.0	2742	2767	2712	2557	2360	2622	2700	2726	2804	2836
22.5	3047	3025	2967	2787	2672	2849	2830	2917	2942	2931
25.0	3237	3261	3283	2973	3027	3036	3034	3026	3053	3118
27.5	3498	3447	3498	3143	3351	3247	3174	3125	3261	3292
30.0	3668	3688	3662	3337	3541	3485	3337	3330	3424	3490
32.5	3816	3879	3820	3580	3696	3636	3505	3437	3491	3726
35.0	4103	4017	3992	3735	3820	3771	3677	3603	3749	3983
37.5	4243	4218	4098	3962	3894	3860	3758	3766	3894	4239
40.0	4357	4260	4131	4017	3898	3888	3840	3877	4087	4458
42.5	4398	4272	4088	3947	3827	3849	3782	3960	4229	4298
45.0	4485	4313	4076	3860	3676	3752	3711	3889	4264	3949
47.5	4614	4383	4103	3781	3509	3603	3553	3763	4054	3598
50.0	4842	4518	4168	3715	3335	3425	3387	3640	3745	3306
52.5	5134	4694	4256	3649	3142	3244	3205	3477	3448	3017
55.0	5484	4902	4366	3601	2954	3053	3020	3264	3158	2769
57.5	5853	5130	4507	3539	2757	2868	2839	3021	2856	2479
60.0	6147	5268	4507	3408	2549	2667	2660	2762	2511	2247
62.5	6209	5145	4089	3188	2332	2467	2458	2479	2234	2042
65.0	5861	4547	3255	2841	2111	2259	2238	2248	1961	1871
67.5	4731	3439	2277	2328	1871	2024	2035	2025	1745	1714
70.0	3031	2212	1600	1779	1597	1757	1824	1820	1548	1569
72.5	1712	1277	1102	1338	1299	1472	1592	1597	1367	1394
75.0	1197	840	751	982	1008	1192	1334	1341	1095	987
77.5	788	548	530	708	786	953	1069	885	666	684

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CANDELA TABULATION - (Cont.)

80.0	448	331	384	530	617	735	640	594	510	532
82.5	281	221	272	399	484	425	440	454	343	396
85.0	165	115	165	267	255	271	293	267	178	262
87.5	62	37	70	113	124	132	117	116	84	122
90.0	11	9	21	28	33	32	25	18	9	9
92.5	9	9	21	29	34	32	25	17	7	6
95.0	8	9	19	27	32	30	24	17	8	7
97.5	8	9	17	23	27	26	21	16	8	8
100.0	8	9	13	19	23	22	19	15	10	9
102.5	8	9	11	15	18	19	17	14	10	9
105.0	8	9	10	13	16	16	15	14	10	9
107.5	8	9	10	12	14	14	14	13	10	9
110.0	8	10	10	11	13	14	13	13	10	10
112.5	9	10	11	12	13	14	14	13	11	10
115.0	9	10	11	12	14	14	15	14	12	11
117.5	10	11	11	13	14	15	15	15	13	12
120.0	10	11	12	13	15	16	16	16	14	13
122.5	11	12	12	14	15	16	17	16	15	13
125.0	12	13	13	14	15	16	17	16	15	14
127.5	13	14	14	14	15	16	16	16	16	14
130.0	13	13	14	15	15	15	16	15	15	14
132.5	13	14	14	15	15	15	15	15	14	13
135.0	12	13	13	13	13	13	12	12	12	11
137.5	8	8	9	9	8	7	7	6	6	5
140.0	6	6	7	7	6	5	4	3	2	1
142.5	6	6	6	6	5	4	3	2	1	0
145.0	6	6	6	6	5	4	3	2	1	0
147.5	5	6	6	6	5	4	3	2	1	0
150.0	5	5	5	5	5	3	3	1	0	0
152.5	5	5	5	5	4	3	2	1	0	0
155.0	5	5	5	5	4	3	2	1	0	0
157.5	5	5	5	5	4	3	2	1	0	0
160.0	4	5	5	5	4	3	2	0	0	0
162.5	4	4	5	4	3	2	1	0	0	0
165.0	4	4	5	4	3	2	1	0	0	0
167.5	4	4	5	4	3	2	1	0	0	0
170.0	4	5	5	4	3	2	1	0	0	0
172.5	5	5	5	4	3	2	1	0	0	0
175.0	5	5	5	4	3	2	1	0	0	0
177.5	5	5	5	4	3	2	1	0	0	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	175	180
0.0	2244	2244
2.5	2269	2263
5.0	2109	2105
7.5	2048	2044
10.0	2072	2101
12.5	2358	2352
15.0	2597	2551
17.5	2734	2713
20.0	2921	2934
22.5	3034	3000
25.0	3209	3194

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CANDELA TABULATION - (Cont.)

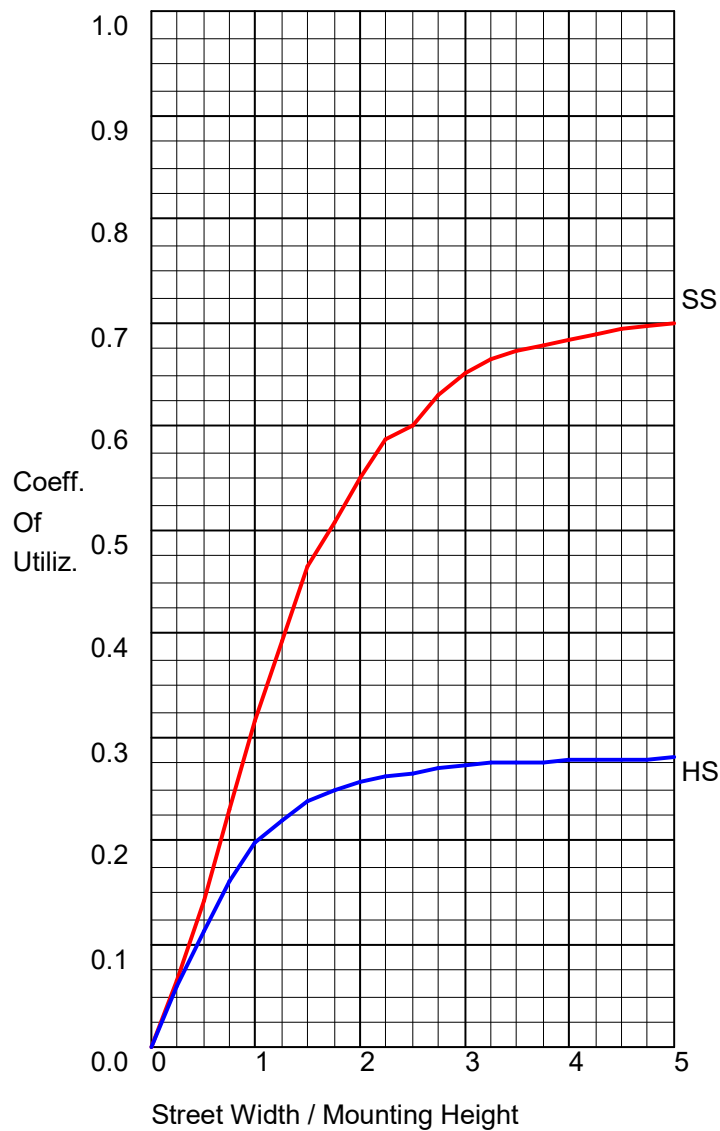
27.5	3383	3430
30.0	3609	3573
32.5	3926	3961
35.0	4150	4134
37.5	4452	4448
40.0	4407	4344
42.5	3996	3914
45.0	3621	3575
47.5	3356	3299
50.0	3124	3066
52.5	2892	2852
55.0	2674	2613
57.5	2393	2357
60.0	2202	2172
62.5	2037	2005
65.0	1896	1869
67.5	1778	1764
70.0	1676	1665
72.5	1517	1519
75.0	1092	1107
77.5	878	893
80.0	732	772
82.5	578	613
85.0	405	442
87.5	238	275
90.0	23	23
92.5	3	2
95.0	4	4
97.5	5	5
100.0	7	6
102.5	7	7
105.0	8	7
107.5	8	7
110.0	8	8
112.5	9	8
115.0	9	9
117.5	10	9
120.0	10	10
122.5	11	10
125.0	11	11
127.5	11	11
130.0	11	11
132.5	10	11
135.0	8	8
137.5	3	3
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	3	3

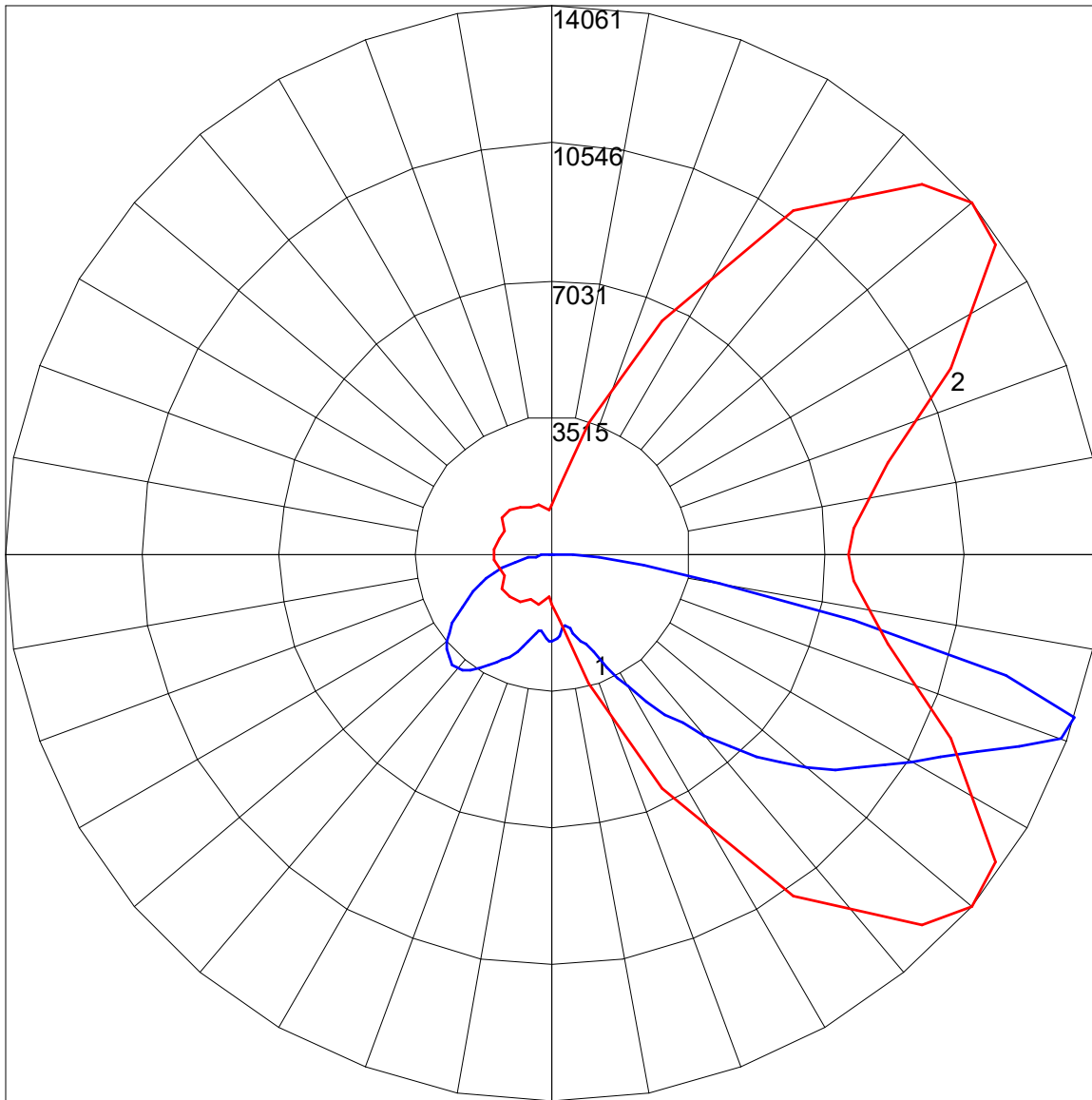
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

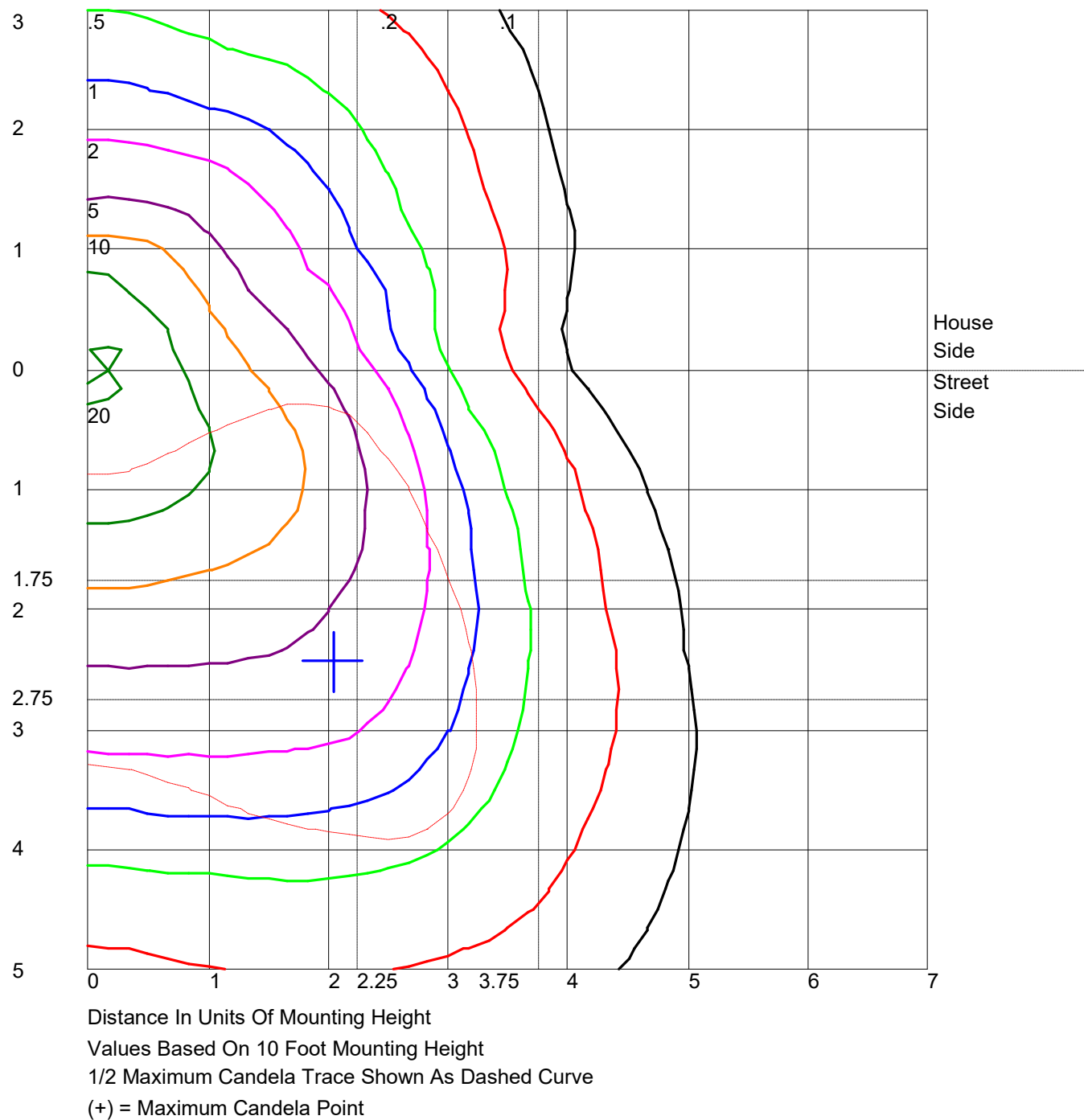
	Lumens	Percent Of Luminaire
Downward Street Side	17989.1	71.3
Downward House Side	7163.6	28.4
Downward Total	25152.7	99.8
Upward Street Side	27.3	0.1
Upward House Side	35.1	0.1
Upward Total	62.4	0.2
Total Flux	25215.1	100.0

POLAR GRAPH

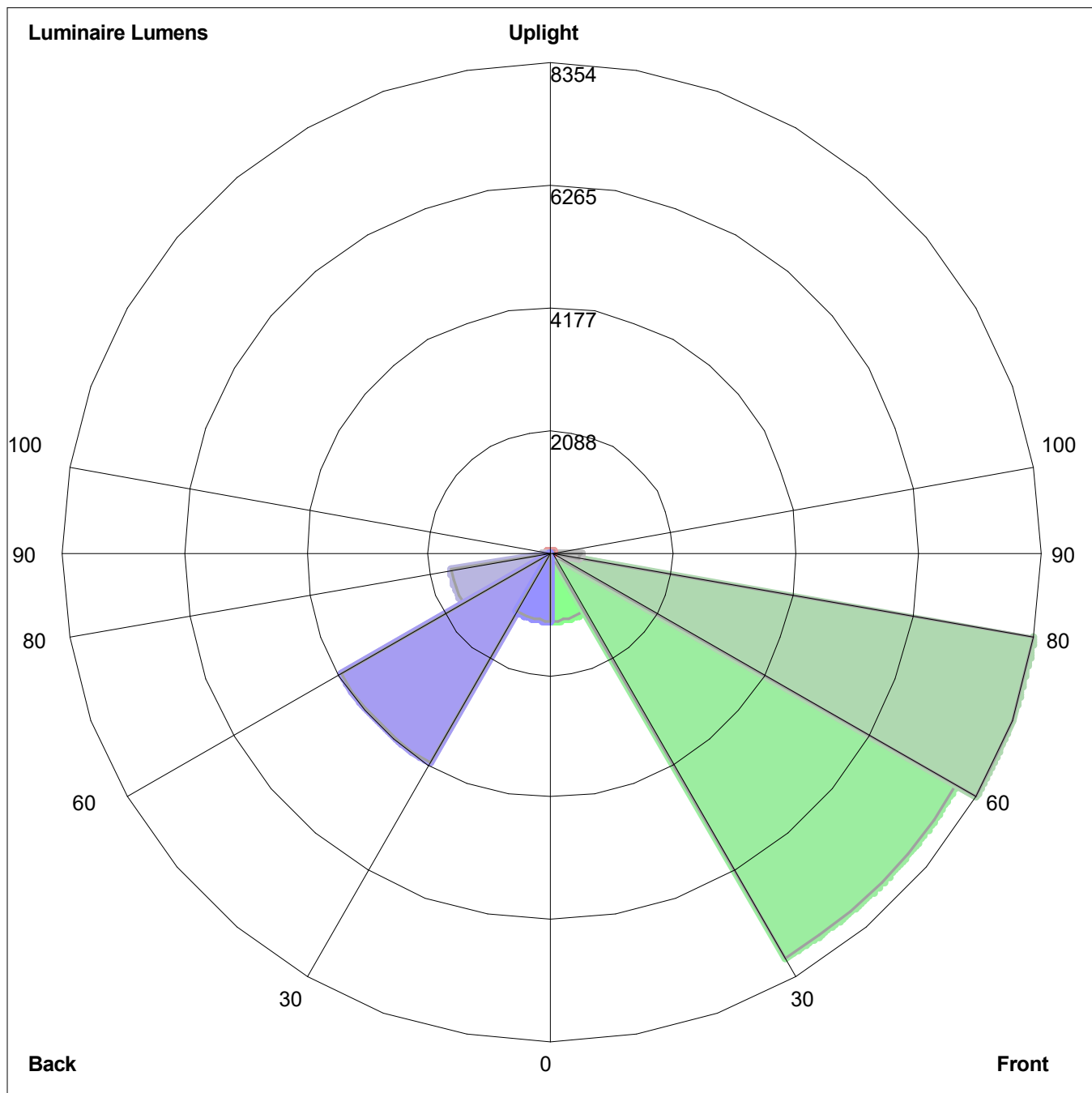


Maximum Candela = 14061 Located At Horizontal Angle = 40, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1160.5, Medium=7975.8, High=8353.5, Very High=499.2
Back: Low=1158.8, Medium=4125.4, High=1728.3, Very High=151.1
Uplight: Low=18.6, High=43.8

BUG Rating : B3-U2-G4