



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-25L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11744

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/23/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-2-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25057
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	228.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19992
Maximum Candela Angle	80H 60V
Maximum Candela (<90 Degrees Vertical)	19992
Maximum Candela Angle (<90 Degrees Vertical)	80H 60V
Maximum Candela At 90 Degrees Vertical	74 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1143 (4.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1451.9	N.A.	5.8
FM - Front-Medium (30-60)	10592.3	N.A.	42.3
FH - Front-High (60-80)	4194.2	N.A.	16.7
FVH - Front-Very High (80-90)	129.2	N.A.	0.5
BL - Back-Low (0-30)	1224.4	N.A.	4.9
BM - Back-Medium (30-60)	5509.5	N.A.	22.0
BH - Back-High (60-80)	1766.9	N.A.	7.1
BVH - Back-Very High (80-90)	158.4	N.A.	0.6
UL - Uplight-Low (90-100)	8.2	N.A.	0.0
UH - Uplight-High (100-180)	21.7	N.A.	0.1
Total	25056.7	N.A.	100.0
BUG Rating	B4-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	80
0.0	2070	2070	2070	2070	2070	2070	2070	2070	2070	2070
2.5	2069	2057	2082	2132	2132	2125	2116	2103	2075	2041
5.0	2058	2095	2164	2139	2213	2061	2047	2008	1977	1972
7.5	2100	2147	2209	2114	2118	2071	2082	2162	2122	2066
10.0	2173	2209	2316	2101	2209	2241	2263	2260	2220	2152
12.5	2425	2486	2384	2351	2415	2359	2440	2378	2417	2391
15.0	2585	2660	2622	2670	2751	2623	2681	2651	2687	2551
17.5	2692	2787	2736	2812	2915	2992	2925	2977	3047	2928
20.0	3035	3117	3071	3069	3181	3253	3377	3315	3372	3335
22.5	3286	3244	3349	3428	3457	3536	3772	3734	3874	3908
25.0	3654	3565	3703	3757	3869	3883	4236	4403	4423	4438
27.5	4175	4264	4332	4198	4293	4367	4698	5145	5363	5280
30.0	4894	4772	4662	4749	4801	5005	5310	6033	6285	6189
32.5	5726	5876	5454	5217	5458	5565	6132	7182	7519	7380
35.0	6686	6606	6359	6141	6023	6392	7000	8268	8891	8811
37.5	7747	7707	7237	6996	6943	7153	7876	9225	9779	9915
40.0	8222	8262	8162	8005	7885	7964	8579	9660	10458	10547
42.5	8516	8521	8437	8537	8722	8835	9497	10011	10716	10927
45.0	8375	8455	8445	8662	9155	9649	10562	10723	11348	11682
47.5	7919	7960	8049	8399	9212	10160	11708	11825	12202	12759
50.0	7074	7134	7270	7701	8769	10194	12680	13313	13246	13911
52.5	5998	6081	6219	6729	7837	9785	13439	14791	14406	15476
55.0	4837	4834	5022	5571	6623	8774	13732	16276	16213	17501
57.5	3661	3630	3790	4339	5249	7348	13409	17082	17973	19136
60.0	2692	2685	2788	3143	3886	5661	11975	17003	18948	19992
62.5	2044	2032	2069	2310	2736	3994	9931	15750	18825	19477
65.0	1605	1623	1650	1782	1996	2609	7586	13598	17337	17469
67.5	1301	1323	1353	1451	1622	1803	5308	10639	14313	14182
70.0	1020	1058	1077	1167	1346	1405	3229	7494	10679	9963
72.5	752	788	793	894	1070	1130	1947	4695	6501	5288
75.0	492	518	508	601	771	907	1246	2881	3132	2125
77.5	364	397	330	359	472	669	853	1764	1534	1010
80.0	366	404	293	246	284	432	557	1143	869	642
82.5	412	413	263	182	195	285	308	690	561	456
85.0	389	403	218	132	127	180	178	255	289	251
87.5	267	260	140	75	63	79	72	70	76	74
90.0	74	73	36	16	8	7	1	1	3	4
92.5	10	9	8	5	2	0	0	0	1	2
95.0	9	9	7	5	2	0	0	0	0	0
97.5	8	8	6	4	1	0	0	0	0	0
100.0	7	7	5	4	1	0	0	0	0	0
102.5	6	6	5	4	1	0	0	0	0	0
105.0	6	6	5	4	1	0	0	0	0	0
107.5	6	6	5	4	2	0	0	0	0	0
110.0	7	7	6	5	2	1	0	0	0	0
112.5	8	8	7	5	3	1	0	0	0	1
115.0	9	9	8	6	3	1	0	0	0	1
117.5	10	9	9	7	4	2	0	0	1	2
120.0	11	11	10	8	5	2	0	0	2	2
122.5	12	12	11	10	6	3	1	1	2	3
125.0	13	13	11	10	7	4	1	1	3	3
127.5	13	13	12	10	8	5	1	1	3	4
130.0	14	13	12	11	8	5	2	2	4	5

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CANDELA TABULATION - (Cont.)

132.5	14	14	13	11	8	6	2	2	4	5
135.0	13	13	11	10	7	4	1	1	3	4
137.5	7	7	5	4	3	1	0	0	0	1
140.0	2	2	2	1	0	0	0	0	0	0
142.5	2	1	2	1	0	0	0	0	0	0
145.0	2	1	1	0	0	0	0	0	0	0
147.5	2	1	1	0	0	0	0	0	0	0
150.0	2	1	1	0	0	0	0	0	0	0
152.5	2	1	1	0	0	0	0	0	0	0
155.0	2	2	1	0	0	0	0	0	0	0
157.5	2	1	1	0	0	0	0	0	0	0
160.0	2	1	0	0	0	0	0	0	0	0
162.5	1	1	0	0	0	0	0	0	0	0
165.0	1	1	0	0	0	0	0	0	0	0
167.5	1	1	1	0	0	0	0	0	0	0
170.0	1	1	1	0	0	0	0	0	0	0
172.5	1	1	1	0	0	0	0	0	0	0
175.0	1	1	1	1	0	0	0	0	0	0
177.5	2	1	1	1	0	0	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

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	2070	2070	2070	2070	2070	2070	2070	2070	2070	2070
2.5	2054	2058	2065	2066	2080	2073	2073	2070	2054	2022
5.0	1999	1987	1953	1938	1969	1927	1919	1938	1919	1897
7.5	2022	2052	2009	2021	1957	1844	1728	1787	1744	1792
10.0	2118	2074	2021	2105	1887	1828	1782	1729	1704	1769
12.5	2264	2248	2243	2148	1960	1863	1836	1914	1916	2046
15.0	2463	2443	2369	2216	1994	1995	2057	2165	2228	2255
17.5	2788	2670	2591	2357	2116	2178	2343	2396	2499	2575
20.0	3118	3070	2878	2501	2294	2425	2542	2725	2841	2916
22.5	3719	3490	3297	2826	2560	2677	2831	3107	3183	3386
25.0	4280	4124	3820	3091	2971	3009	3185	3344	3633	3867
27.5	5120	4758	4459	3542	3335	3326	3515	3756	4116	4315
30.0	6159	5572	5144	3969	3772	3787	3971	4213	4383	4571
32.5	7061	6515	5804	4473	4184	4188	4316	4397	4643	4909
35.0	8435	7602	6659	5014	4558	4562	4677	4620	4775	4993
37.5	9489	8730	7485	5455	4943	4803	4792	4823	4754	5056
40.0	10023	9410	7905	5925	5285	4963	4868	4774	4680	4774
42.5	10598	9947	8266	6172	5395	5027	4762	4680	4413	4363
45.0	11348	10566	8697	6392	5466	4910	4572	4383	4031	3930
47.5	12456	11416	9145	6625	5474	4700	4300	4059	3626	3504
50.0	13688	12268	9536	6754	5367	4480	3996	3689	3234	3119
52.5	15192	13102	9860	6725	5192	4148	3688	3370	2912	2757
55.0	16806	13644	10029	6475	4858	3782	3347	3070	2593	2417
57.5	17944	13682	9632	6007	4389	3344	2987	2780	2270	2106
60.0	17972	12843	8594	5240	3844	2909	2677	2485	2007	1858
62.5	16587	11308	7176	4339	3270	2509	2342	2180	1755	1617
65.0	14028	9146	5452	3401	2681	2110	2021	1887	1523	1361
67.5	10597	6626	3832	2503	2142	1739	1716	1604	1280	1171
70.0	6713	4107	2460	1794	1704	1446	1473	1330	1102	1015
72.5	3289	2127	1638	1359	1403	1216	1250	1106	916	834
75.0	1318	1119	1103	1065	1156	1028	1033	895	722	632
77.5	755	717	775	863	937	842	808	651	533	432

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CANDELA TABULATION - (Cont.)

80.0	551	488	506	684	735	635	544	425	460	366
82.5	380	288	303	532	529	396	328	320	494	421
85.0	205	142	158	333	279	229	229	276	475	402
87.5	63	44	54	96	97	102	112	145	279	286
90.0	3	1	4	11	20	27	28	20	6	10
92.5	2	0	3	10	19	25	24	17	5	8
95.0	1	0	3	9	16	20	19	13	5	7
97.5	0	0	3	7	13	15	14	10	4	6
100.0	0	0	3	6	10	11	9	8	4	6
102.5	0	1	3	5	8	8	6	6	4	6
105.0	0	1	3	4	6	6	5	5	4	5
107.5	0	2	3	4	6	5	5	5	5	6
110.0	0	2	3	4	6	5	5	6	5	6
112.5	1	2	3	4	6	6	6	6	6	6
115.0	1	3	3	5	7	6	6	6	6	7
117.5	2	3	4	5	7	7	7	7	7	8
120.0	3	4	5	7	8	8	8	8	8	9
122.5	4	5	6	7	9	9	9	9	9	10
125.0	5	6	7	8	9	9	10	10	10	11
127.5	6	7	7	8	8	9	9	10	11	12
130.0	6	7	7	8	9	9	10	10	12	13
132.5	6	6	7	8	9	9	10	10	12	13
135.0	4	5	5	6	7	8	8	9	10	12
137.5	1	2	2	3	4	4	5	6	7	7
140.0	0	0	0	0	1	2	3	4	5	4
142.5	0	0	0	0	1	2	3	4	4	4
145.0	0	0	0	0	1	2	3	4	4	4
147.5	0	0	0	0	1	2	3	4	4	4
150.0	0	0	0	0	1	2	3	4	5	4
152.5	0	0	0	0	1	2	3	4	4	3
155.0	0	0	0	0	1	2	3	4	4	3
157.5	0	0	0	0	1	2	3	4	4	3
160.0	0	0	0	0	0	1	2	3	3	3
162.5	0	0	0	0	0	1	2	3	3	2
165.0	0	0	0	0	0	1	2	3	3	2
167.5	0	0	0	0	0	1	2	3	3	3
170.0	0	0	0	0	0	0	1	2	3	2
172.5	0	0	0	0	0	0	1	2	2	2
175.0	0	0	0	0	0	0	1	2	2	2
177.5	0	0	0	0	0	0	1	2	2	3
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	2070	2070
2.5	1998	1981
5.0	1833	1825
7.5	1770	1748
10.0	1818	1747
12.5	2098	2004
15.0	2425	2337
17.5	2760	2637
20.0	3174	2995
22.5	3497	3463
25.0	4017	3932

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CANDELA TABULATION - (Cont.)

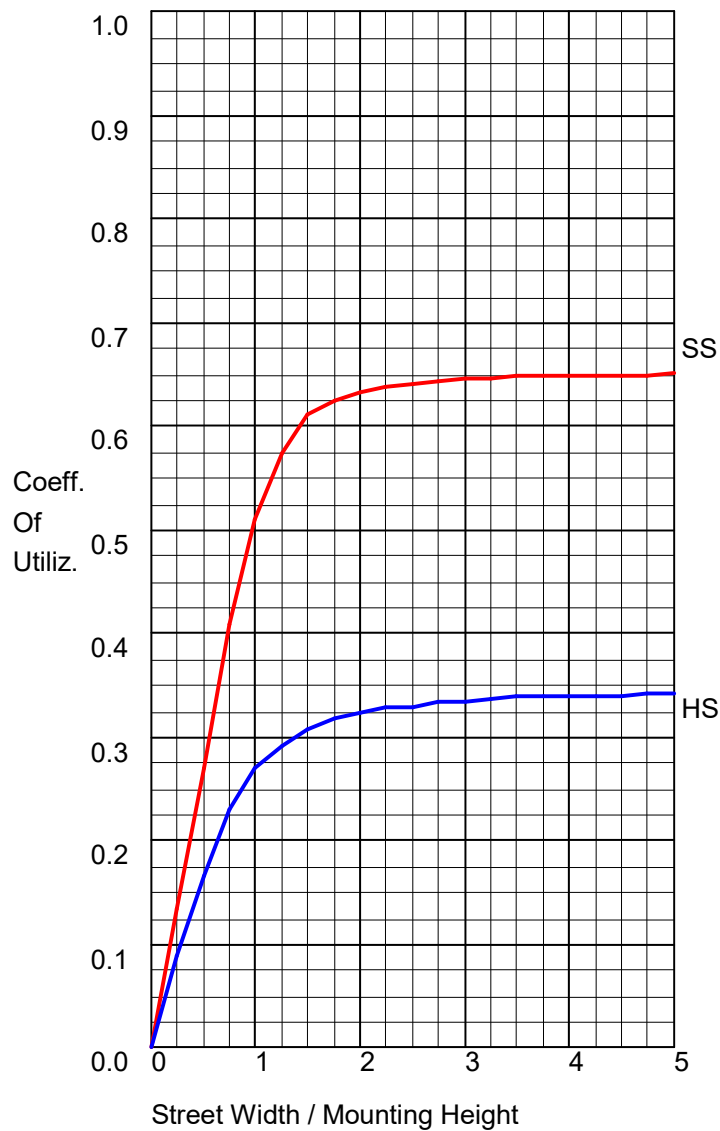
27.5	4420	4376
30.0	4742	4727
32.5	5096	4986
35.0	5130	5027
37.5	5186	5091
40.0	4780	4662
42.5	4362	4264
45.0	3880	3790
47.5	3441	3364
50.0	3055	2971
52.5	2698	2621
55.0	2350	2287
57.5	2057	2010
60.0	1812	1763
62.5	1589	1555
65.0	1389	1376
67.5	1258	1257
70.0	1123	1153
72.5	964	1003
75.0	714	772
77.5	483	536
80.0	426	485
82.5	482	508
85.0	433	444
87.5	208	286
90.0	7	7
92.5	6	6
95.0	6	6
97.5	5	5
100.0	5	5
102.5	5	5
105.0	4	5
107.5	5	5
110.0	5	6
112.5	6	6
115.0	7	7
117.5	8	8
120.0	9	9
122.5	10	10
125.0	11	11
127.5	11	12
130.0	12	12
132.5	12	13
135.0	11	11
137.5	6	6
140.0	3	3
142.5	3	2
145.0	2	2
147.5	2	2
150.0	2	2
152.5	2	2
155.0	2	1
157.5	1	1
160.0	1	0
162.5	1	0
165.0	1	0

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CANDELA TABULATION - (Cont.)

167.5	1	0
170.0	1	0
172.5	1	0
175.0	1	0
177.5	1	0
180.0	1	1

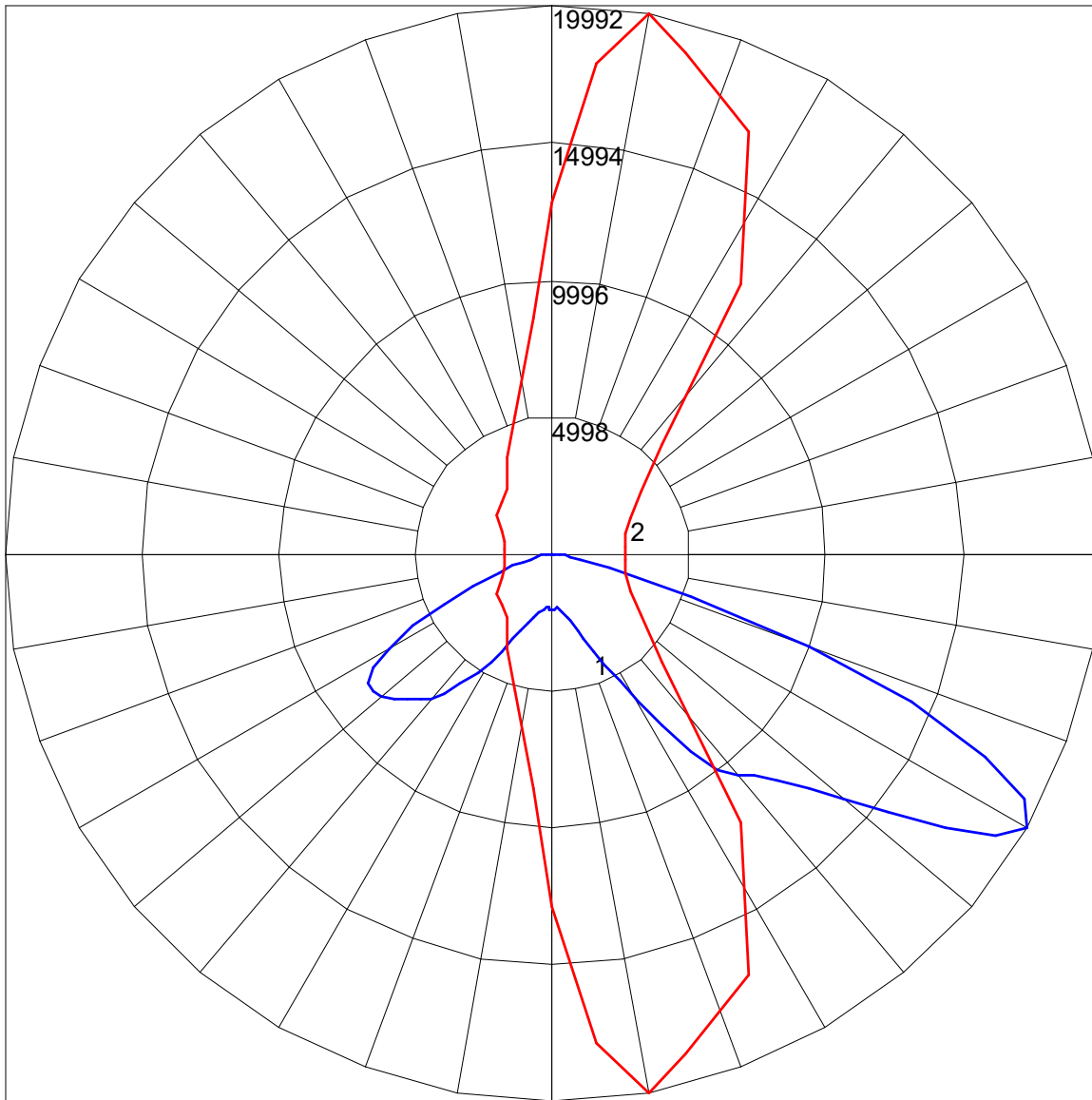
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

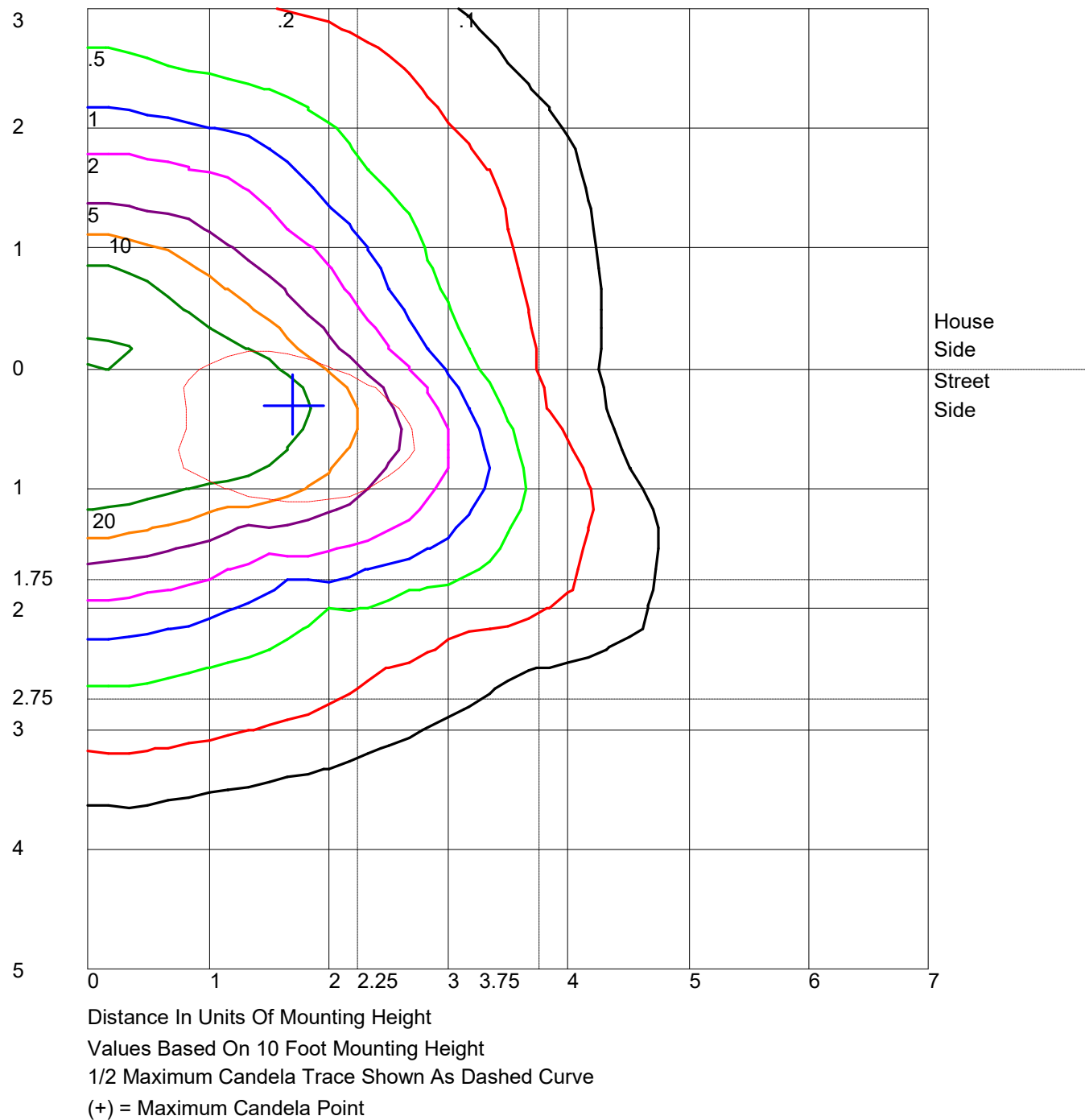
	Lumens	Percent Of Luminaire
Downward Street Side	16367.6	65.3
Downward House Side	8659.3	34.6
Downward Total	25026.9	99.9
Upward Street Side	9.8	0.0
Upward House Side	20.1	0.1
Upward Total	29.9	0.1
Total Flux	25056.8	100.0

POLAR GRAPH

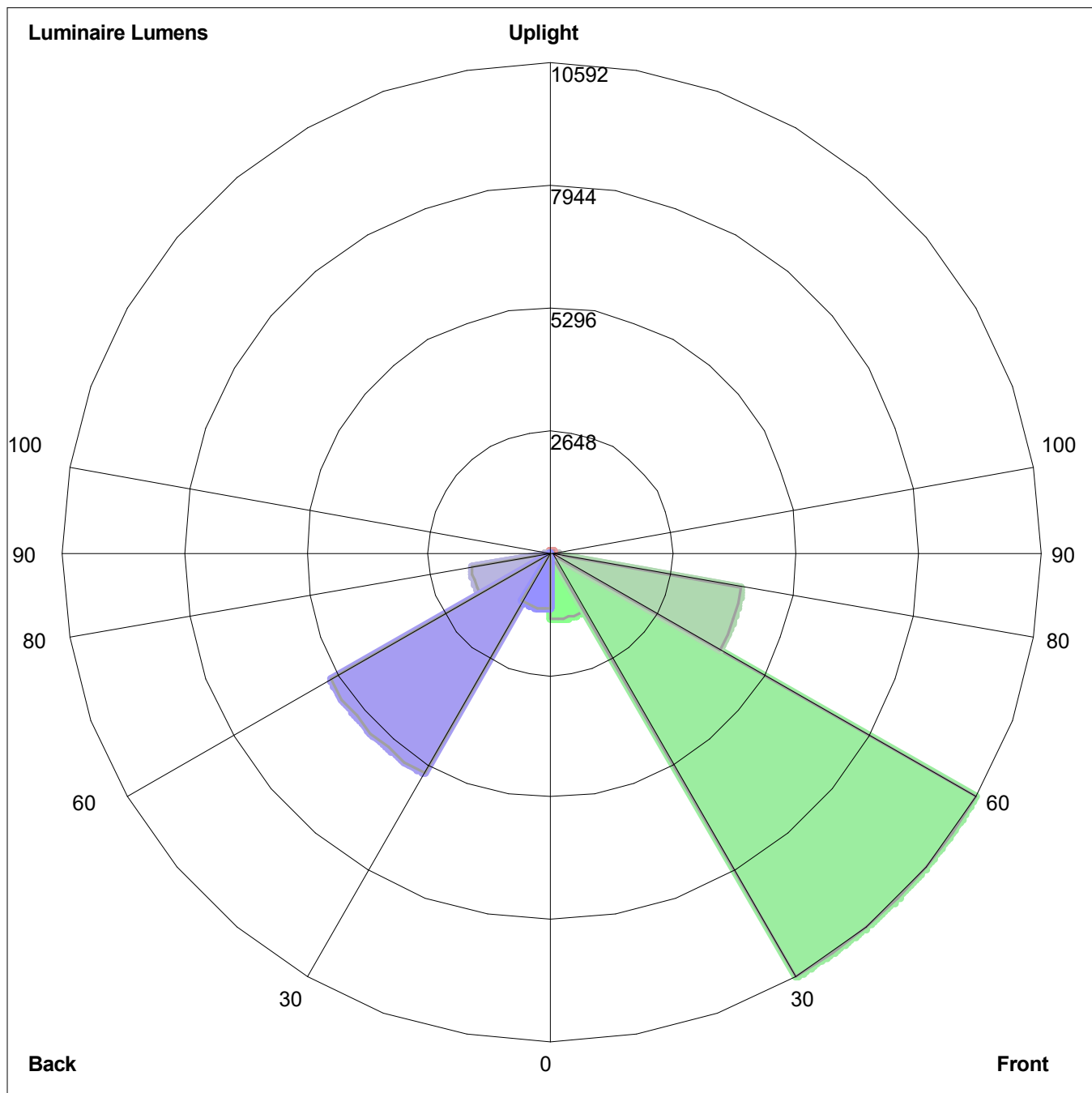


Maximum Candela = 19992 Located At Horizontal Angle = 80, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1451.9, Medium=10592.3, High=4194.2, Very High=129.2
Back: Low=1224.4, Medium=5509.5, High=1766.9, Very High=158.4
Uplight: Low=8.2, High=21.7

BUG Rating : B4-U2-G3