



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-10L-40-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11746  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/20  
[TEST DATE] 04/23/20  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-2-LED-10L-40-IL  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[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	7570
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	77
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7740
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	7740
Maximum Candela Angle (<90 Degrees Vertical)	80H 57.5V
Maximum Candela At 90 Degrees Vertical	8 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	306 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	584.3	N.A.	7.7
FM - Front-Medium (30-60)	4264.3	N.A.	56.3
FH - Front-High (60-80)	1400.2	N.A.	18.5
FVH - Front-Very High (80-90)	29.6	N.A.	0.4
BL - Back-Low (0-30)	316.9	N.A.	4.2
BM - Back-Medium (30-60)	794.4	N.A.	10.5
BH - Back-High (60-80)	164.6	N.A.	2.2
BVH - Back-Very High (80-90)	5.4	N.A.	0.1
UL - Uplight-Low (90-100)	2.3	N.A.	0.0
UH - Uplight-High (100-180)	7.6	N.A.	0.1
Total	7569.6	N.A.	100.0
BUG Rating	B1-U1-G1		

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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	80
0.0	778	778	778	778	778	778	778	778	778	778
2.5	792	796	794	801	800	800	804	797	786	773
5.0	792	804	821	813	838	781	785	761	742	736
7.5	808	831	843	800	819	785	796	823	804	781
10.0	859	855	891	825	848	862	871	859	836	811
12.5	929	973	939	914	936	922	934	920	914	916
15.0	1001	1043	1025	1050	1074	1023	1037	1020	1036	1000
17.5	1070	1101	1090	1114	1144	1190	1137	1162	1183	1127
20.0	1215	1239	1233	1221	1256	1278	1310	1300	1325	1315
22.5	1310	1319	1349	1384	1401	1409	1520	1513	1560	1554
25.0	1496	1454	1495	1531	1572	1567	1719	1818	1829	1836
27.5	1709	1755	1773	1725	1740	1792	1940	2192	2283	2237
30.0	1992	1944	1932	1943	1969	2066	2229	2632	2728	2700
32.5	2352	2383	2233	2150	2232	2318	2609	3195	3344	3314
35.0	2724	2690	2567	2506	2479	2680	2994	3663	3980	3915
37.5	3113	3108	2935	2813	2876	2955	3361	4018	4272	4346
40.0	3288	3295	3241	3185	3201	3305	3652	4161	4480	4493
42.5	3358	3344	3324	3343	3497	3604	3996	4261	4550	4637
45.0	3278	3282	3283	3387	3632	3934	4373	4542	4783	4935
47.5	3035	3028	3090	3257	3578	4066	4755	5012	5139	5363
50.0	2685	2670	2748	2932	3335	3998	5144	5540	5558	5817
52.5	2234	2234	2320	2509	2946	3720	5366	6122	6086	6554
55.0	1737	1731	1820	2049	2464	3271	5388	6607	6722	7232
57.5	1242	1217	1320	1531	1916	2702	5106	6744	7226	7740
60.0	847	840	922	1073	1373	2036	4487	6515	7386	7731
62.5	595	600	647	746	928	1382	3673	5713	6994	7180
65.0	416	415	455	549	668	881	2780	4807	6044	5970
67.5	270	283	308	388	501	595	1887	3600	4791	4579
70.0	171	176	185	257	364	429	1147	2459	3356	2954
72.5	126	131	131	163	252	309	594	1537	1946	1480
75.0	87	91	90	106	170	223	331	934	953	591
77.5	58	58	61	65	104	158	199	532	498	318
80.0	39	41	42	41	57	102	125	284	306	215
82.5	37	37	35	33	36	51	74	142	193	166
85.0	28	27	26	26	28	37	43	69	100	100
87.5	16	16	16	15	16	21	26	34	37	36
90.0	6	6	4	4	4	4	2	4	5	4
92.5	2	2	2	2	1	0	0	0	0	0
95.0	2	1	2	2	1	0	0	0	0	0
97.5	2	1	2	2	1	0	0	0	0	0
100.0	1	1	2	2	1	0	0	0	0	0
102.5	2	1	2	2	1	0	0	0	0	0
105.0	2	1	2	2	1	0	0	0	0	0
107.5	2	2	2	2	1	0	0	0	0	0
110.0	2	2	2	2	1	0	0	0	0	0
112.5	2	2	2	2	1	0	0	0	0	0
115.0	2	2	2	2	1	0	0	0	0	0
117.5	3	3	2	2	2	0	0	0	0	1
120.0	4	3	3	2	2	1	0	0	1	1
122.5	4	4	3	3	2	1	0	0	1	1
125.0	4	4	4	3	2	1	0	1	2	2
127.5	5	4	4	3	2	2	1	1	2	2
130.0	5	5	4	3	2	2	1	1	2	2

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**CANDELA TABULATION - (Cont.)**

132.5	5	5	4	4	2	2	1	1	2	2
135.0	5	4	4	3	2	2	1	1	2	2
137.5	2	2	2	2	1	0	0	0	0	1
140.0	0	0	1	1	0	0	0	0	0	0
142.5	0	0	1	0	0	0	0	0	0	0
145.0	0	0	1	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	1	1	0	0	0	0	0	0
177.5	0	0	1	1	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	778	778	778	778	778	778	778	778	778	778
2.5	776	774	778	774	764	769	773	774	767	761
5.0	745	739	725	717	723	721	708	715	703	682
7.5	769	771	755	760	722	686	631	640	630	649
10.0	799	781	757	770	682	664	636	617	585	609
12.5	867	854	836	794	712	665	629	646	648	682
15.0	959	933	878	809	701	681	684	719	735	725
17.5	1081	1017	966	858	726	726	767	785	783	778
20.0	1228	1177	1091	907	770	800	806	818	767	699
22.5	1477	1339	1254	1025	844	860	841	742	604	505
25.0	1741	1635	1468	1110	976	918	764	544	391	302
27.5	2105	1913	1733	1252	1080	900	595	358	241	203
30.0	2554	2304	2020	1402	1165	800	423	241	198	180
32.5	3039	2724	2330	1548	1211	659	286	205	177	166
35.0	3599	3193	2688	1711	1172	494	240	185	166	157
37.5	4029	3663	2987	1836	1060	335	216	173	152	141
40.0	4223	3871	3132	1938	894	267	196	160	134	123
42.5	4437	4095	3247	1943	626	237	178	143	115	100
45.0	4740	4347	3411	1891	396	211	159	123	94	80
47.5	5178	4691	3571	1726	288	188	136	100	75	62
50.0	5656	5016	3701	1440	247	167	113	78	60	48
52.5	6241	5301	3751	1070	224	144	90	60	46	37
55.0	6858	5369	3674	721	207	121	70	45	35	26
57.5	7099	5154	3373	509	191	98	52	33	25	16
60.0	6869	4682	2903	415	184	80	39	22	15	8
62.5	6065	3955	2336	343	175	63	27	12	8	4
65.0	4920	3034	1697	263	153	49	18	6	6	3
67.5	3512	2115	1036	185	116	36	11	4	5	3
70.0	2019	1264	571	131	78	24	9	5	4	3
72.5	910	623	321	97	49	15	9	6	4	2
75.0	380	324	199	70	28	12	10	7	4	2
77.5	234	222	128	45	18	12	11	8	4	2

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**CANDELA TABULATION - (Cont.)**

80.0	186	156	83	25	14	12	11	8	4	2
82.5	133	95	49	12	11	11	11	8	4	3
85.0	77	49	23	6	8	10	10	8	4	3
87.5	26	12	4	3	6	9	9	7	4	2
90.0	1	1	2	3	6	8	8	6	3	2
92.5	0	1	2	3	5	8	7	5	3	2
95.0	0	1	1	2	4	6	5	4	2	2
97.5	0	1	1	2	3	4	3	3	2	2
100.0	0	1	1	2	3	3	3	2	2	2
102.5	0	1	1	2	2	2	2	2	2	2
105.0	0	1	1	2	2	2	2	2	2	2
107.5	0	1	1	2	2	2	2	2	2	2
110.0	0	1	1	2	2	2	2	2	2	2
112.5	0	1	1	2	2	2	2	2	2	2
115.0	1	1	2	2	2	2	2	2	2	2
117.5	1	1	2	2	2	2	2	2	2	2
120.0	2	2	2	2	2	2	2	2	2	2
122.5	2	2	2	2	3	3	3	3	3	3
125.0	2	2	2	2	3	3	3	3	3	3
127.5	2	2	2	3	3	3	3	3	3	3
130.0	2	2	3	3	3	3	3	3	3	3
132.5	2	2	3	3	3	3	3	3	3	3
135.0	2	2	2	3	3	3	3	3	3	3
137.5	1	1	2	2	2	2	2	3	3	3
140.0	0	0	0	1	1	2	2	2	2	2
142.5	0	0	0	0	1	2	2	2	2	2
145.0	0	0	0	0	1	2	2	2	2	2
147.5	0	0	0	0	1	2	2	2	2	2
150.0	0	0	0	0	1	2	2	2	2	2
152.5	0	0	0	1	1	2	2	2	2	2
155.0	0	0	0	1	1	2	2	2	2	2
157.5	0	0	0	1	1	2	2	2	2	2
160.0	0	0	0	0	1	1	2	2	2	2
162.5	0	0	0	0	1	1	2	2	2	2
165.0	0	0	0	0	0	1	1	2	2	2
167.5	0	0	0	0	0	1	1	2	2	1
170.0	0	0	0	0	0	1	1	2	2	1
172.5	0	0	0	0	0	0	1	1	1	1
175.0	0	0	0	0	0	0	1	1	1	1
177.5	0	0	0	0	0	0	1	1	1	1
180.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

	<b>175</b>	<b>180</b>
<b>0.0</b>	778	778
<b>2.5</b>	752	739
<b>5.0</b>	678	669
<b>7.5</b>	640	626
<b>10.0</b>	626	607
<b>12.5</b>	699	677
<b>15.0</b>	778	763
<b>17.5</b>	813	788
<b>20.0</b>	691	656
<b>22.5</b>	461	453
<b>25.0</b>	265	258

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

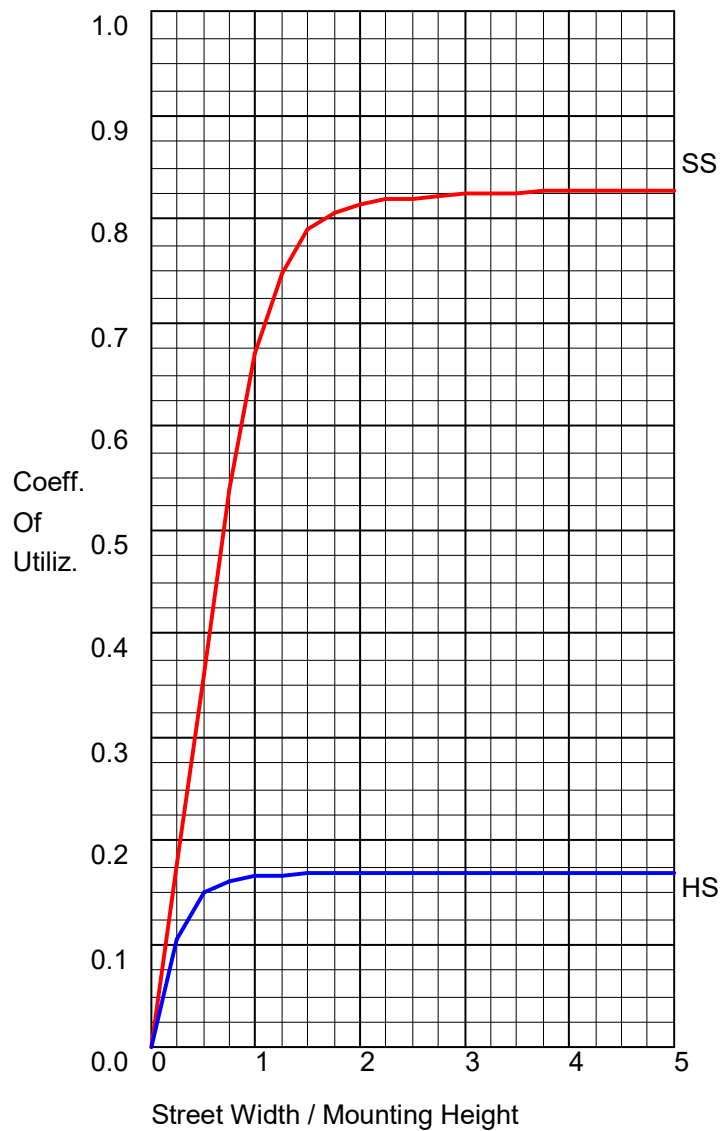
27.5	198	196
30.0	177	177
32.5	168	168
35.0	155	155
37.5	139	140
40.0	118	118
42.5	95	93
45.0	75	74
47.5	58	57
50.0	44	44
52.5	32	32
55.0	22	22
57.5	12	11
60.0	5	5
62.5	2	2
65.0	1	1
67.5	2	2
70.0	2	2
72.5	1	1
75.0	1	1
77.5	1	1
80.0	1	1
82.5	1	1
85.0	1	1
87.5	1	1
90.0	1	1
92.5	1	1
95.0	1	1
97.5	1	1
100.0	1	1
102.5	1	1
105.0	1	1
107.5	1	1
110.0	1	1
112.5	1	1
115.0	1	1
117.5	2	2
120.0	2	2
122.5	2	2
125.0	3	3
127.5	3	3
130.0	3	4
132.5	3	4
135.0	3	3
137.5	2	2
140.0	2	2
142.5	2	2
145.0	1	2
147.5	1	2
150.0	1	2
152.5	2	2
155.0	1	2
157.5	1	1
160.0	1	1
162.5	1	0
165.0	0	0

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	0	0
<b>170.0</b>	0	0
<b>172.5</b>	0	0
<b>175.0</b>	0	0
<b>177.5</b>	0	0
<b>180.0</b>	0	0

### COEFFICIENTS OF UTILIZATION

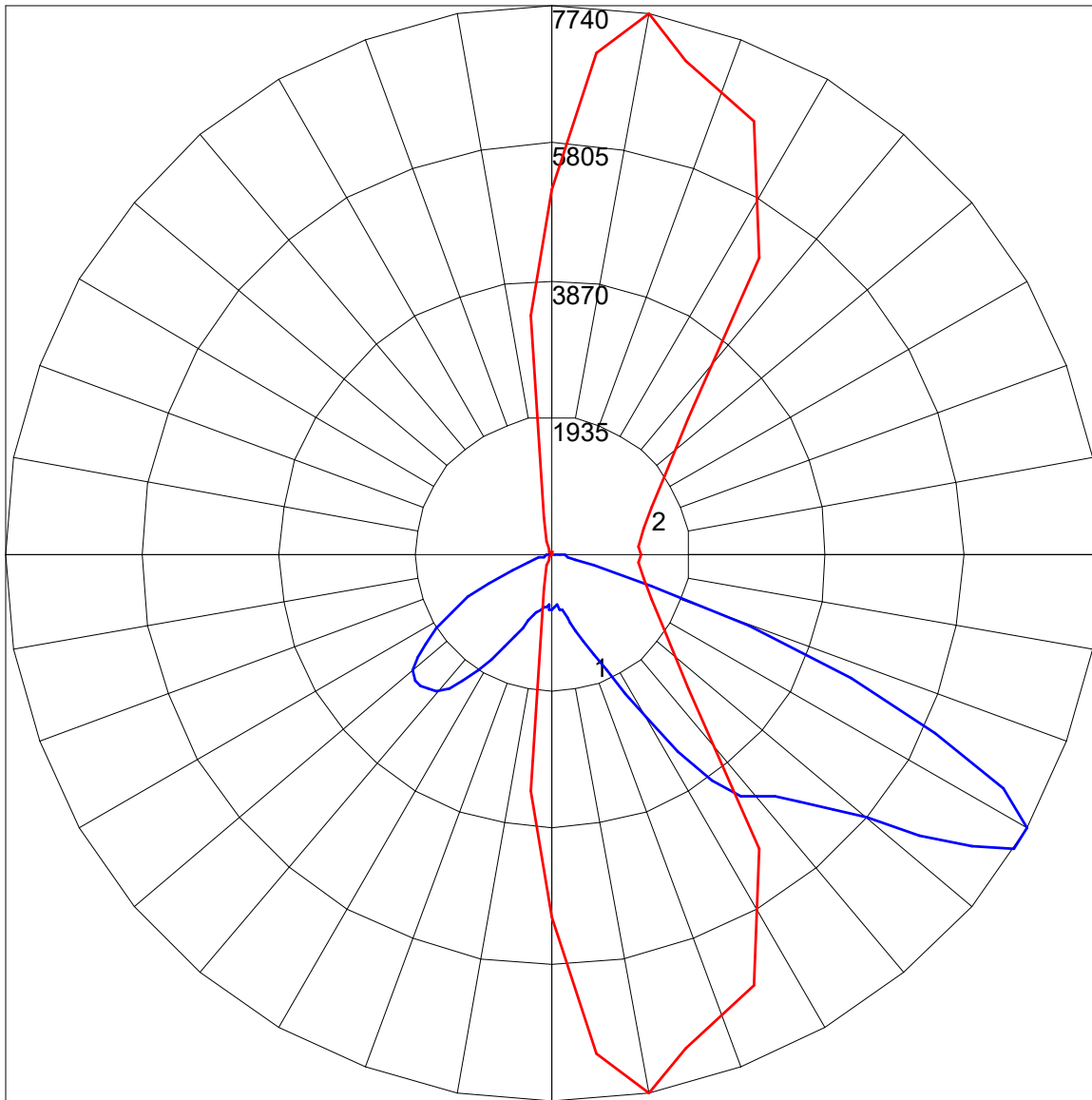


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	6278.5	82.9
Downward House Side	1281.3	16.9
Downward Total	7559.8	99.9
Upward Street Side	3.2	0.0
Upward House Side	6.8	0.1
Upward Total	10.0	0.1
Total Flux	7569.8	100.0

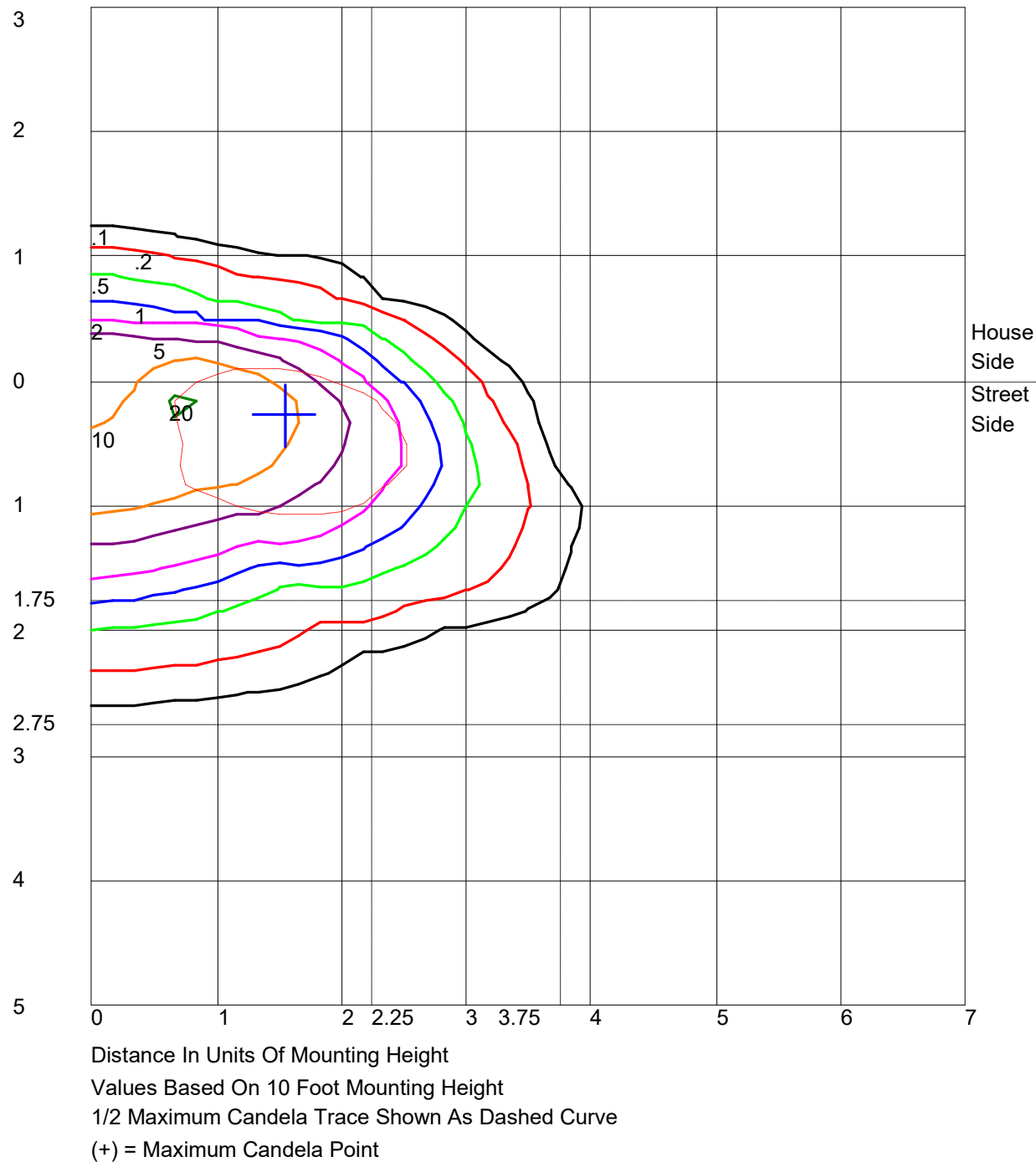


POLAR GRAPH

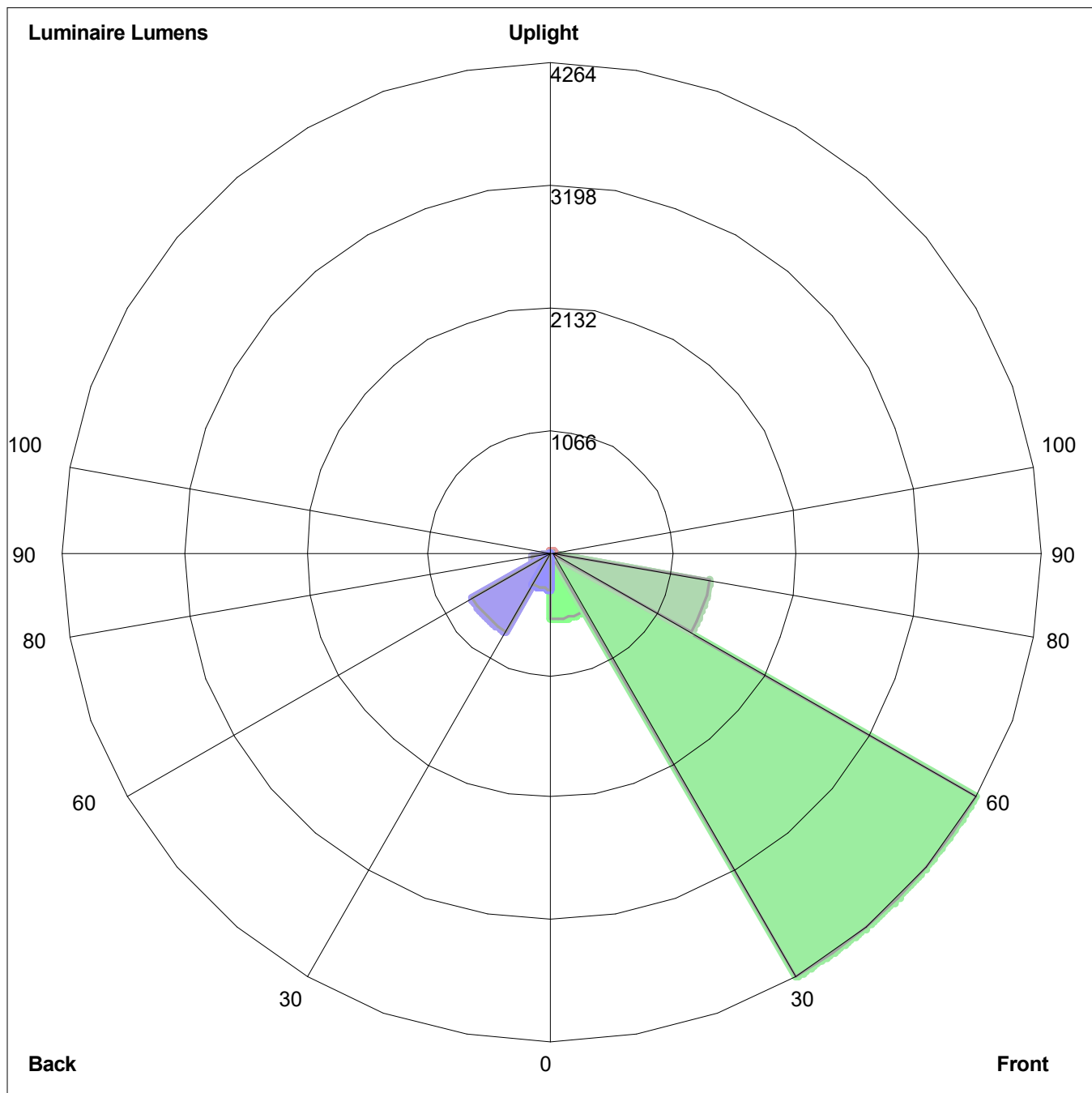


Maximum Candela = 7740 Located At Horizontal Angle = 80, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=584.3, Medium=4264.3, High=1400.2, Very High=29.6  
Back: Low=316.9, Medium=794.4, High=164.6, Very High=5.4  
Uplight: Low=2.3, High=7.6

BUG Rating : B1-U1-G1