



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-10L-50-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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-2-LED-10L-50-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	7944
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	77
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8124
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	8124
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	321 (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)	613.3	N.A.	7.7
FM - Front-Medium (30-60)	4475.8	N.A.	56.3
FH - Front-High (60-80)	1469.6	N.A.	18.5
FVH - Front-Very High (80-90)	31.1	N.A.	0.4
BL - Back-Low (0-30)	332.6	N.A.	4.2
BM - Back-Medium (30-60)	833.8	N.A.	10.5
BH - Back-High (60-80)	172.7	N.A.	2.2
BVH - Back-Very High (80-90)	5.6	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	7944.4	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	817	817	817	817	817	817	817	817	817	817
2.5	831	835	833	841	840	840	844	837	825	811
5.0	831	844	862	853	880	820	824	799	779	773
7.5	848	872	885	840	860	824	835	864	844	820
10.0	902	897	935	866	890	905	914	902	877	851
12.5	975	1021	986	959	982	968	980	966	959	961
15.0	1051	1095	1076	1102	1127	1074	1088	1071	1087	1050
17.5	1123	1156	1144	1169	1201	1249	1193	1220	1242	1183
20.0	1275	1300	1294	1282	1318	1341	1375	1364	1391	1380
22.5	1375	1384	1416	1453	1470	1479	1595	1588	1637	1631
25.0	1570	1526	1569	1607	1650	1645	1804	1908	1920	1927
27.5	1794	1842	1861	1811	1826	1881	2036	2301	2396	2348
30.0	2091	2040	2028	2039	2067	2168	2340	2763	2863	2834
32.5	2469	2501	2344	2257	2343	2433	2738	3353	3510	3478
35.0	2859	2823	2694	2630	2602	2813	3143	3845	4177	4109
37.5	3267	3262	3081	2953	3019	3102	3528	4217	4484	4562
40.0	3451	3458	3402	3343	3360	3469	3833	4367	4702	4716
42.5	3525	3510	3489	3509	3670	3783	4194	4472	4776	4867
45.0	3441	3445	3446	3555	3812	4129	4590	4767	5020	5180
47.5	3186	3178	3243	3419	3755	4268	4991	5261	5394	5629
50.0	2818	2802	2884	3077	3500	4196	5399	5815	5834	6106
52.5	2345	2345	2435	2633	3092	3905	5632	6426	6388	6879
55.0	1823	1817	1910	2151	2586	3433	5655	6935	7055	7591
57.5	1304	1277	1385	1607	2011	2836	5359	7079	7584	8124
60.0	889	882	968	1126	1441	2137	4710	6838	7752	8114
62.5	625	630	679	783	974	1451	3855	5996	7341	7536
65.0	437	436	478	576	701	925	2918	5045	6344	6266
67.5	283	297	323	407	526	625	1981	3779	5029	4806
70.0	179	185	194	270	382	450	1204	2581	3522	3101
72.5	132	137	137	171	264	324	623	1613	2043	1553
75.0	91	96	94	111	178	234	347	980	1000	620
77.5	61	61	64	68	109	166	209	558	523	334
80.0	41	43	44	43	60	107	131	298	321	226
82.5	39	39	37	35	38	54	78	149	203	174
85.0	29	28	27	27	29	39	45	72	105	105
87.5	17	17	17	16	17	22	27	36	39	38
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	817	817	817	817	817	817	817	817	817	817
2.5	814	812	817	812	802	807	811	812	805	799
5.0	782	776	761	753	759	757	743	750	738	716
7.5	807	809	792	798	758	720	662	672	661	681
10.0	839	820	795	808	716	697	668	648	614	639
12.5	910	896	877	833	747	698	660	678	680	716
15.0	1007	979	922	849	736	715	718	755	771	761
17.5	1135	1067	1014	901	762	762	805	824	822	817
20.0	1289	1235	1145	952	808	840	846	859	805	734
22.5	1550	1405	1316	1076	886	903	883	779	634	530
25.0	1827	1716	1541	1165	1024	964	802	571	410	317
27.5	2209	2008	1819	1314	1134	945	625	376	253	213
30.0	2681	2418	2120	1472	1223	840	444	253	208	189
32.5	3190	2859	2446	1625	1271	692	300	215	186	174
35.0	3778	3351	2821	1796	1230	519	252	194	174	165
37.5	4229	3845	3135	1927	1113	352	227	182	160	148
40.0	4432	4063	3287	2034	938	280	206	168	141	129
42.5	4657	4298	3408	2039	657	249	187	150	121	105
45.0	4975	4563	3580	1985	416	221	167	129	99	84
47.5	5435	4924	3748	1812	302	197	143	105	79	65
50.0	5937	5265	3885	1511	259	175	119	82	63	50
52.5	6551	5564	3937	1123	235	151	94	63	48	39
55.0	7198	5635	3856	757	217	127	73	47	37	27
57.5	7451	5410	3540	534	200	103	55	35	26	17
60.0	7210	4914	3047	436	193	84	41	23	16	8
62.5	6366	4151	2452	360	184	66	28	13	8	4
65.0	5164	3184	1781	276	161	51	19	6	6	3
67.5	3686	2220	1087	194	122	38	12	4	5	3
70.0	2119	1327	599	137	82	25	9	5	4	3
72.5	955	654	337	102	51	16	9	6	4	2
75.0	399	340	209	73	29	13	10	7	4	2
77.5	246	233	134	47	19	13	12	8	4	2

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CANDELA TABULATION - (Cont.)

80.0	195	164	87	26	15	13	12	8	4	2
82.5	140	100	51	13	12	12	12	8	4	3
85.0	81	51	24	6	8	10	10	8	4	3
87.5	27	13	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

	175	180
0.0	817	817
2.5	789	776
5.0	712	702
7.5	672	657
10.0	657	637
12.5	734	711
15.0	817	801
17.5	853	827
20.0	725	689
22.5	484	475
25.0	278	271

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CANDELA TABULATION - (Cont.)

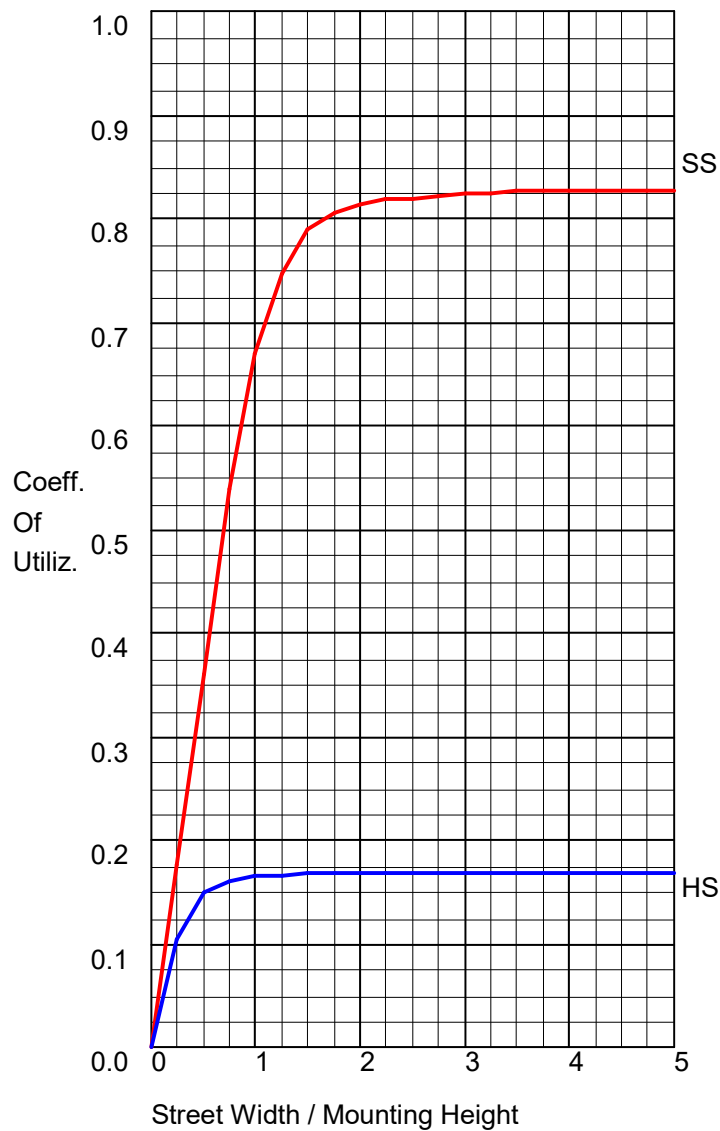
27.5	208	206
30.0	186	186
32.5	176	176
35.0	163	163
37.5	146	147
40.0	124	124
42.5	100	98
45.0	79	78
47.5	61	60
50.0	46	46
52.5	34	34
55.0	23	23
57.5	13	12
60.0	5	5
62.5	2	2
65.0	1	1
67.5	2	2
70.0	2	2
72.5	1	1
75.0	1	1
77.5	1	1
80.0	1	1
82.5	1	1
85.0	1	1
87.5	1	1
90.0	1	1
92.5	1	1
95.0	1	1
97.5	1	1
100.0	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

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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	0	0

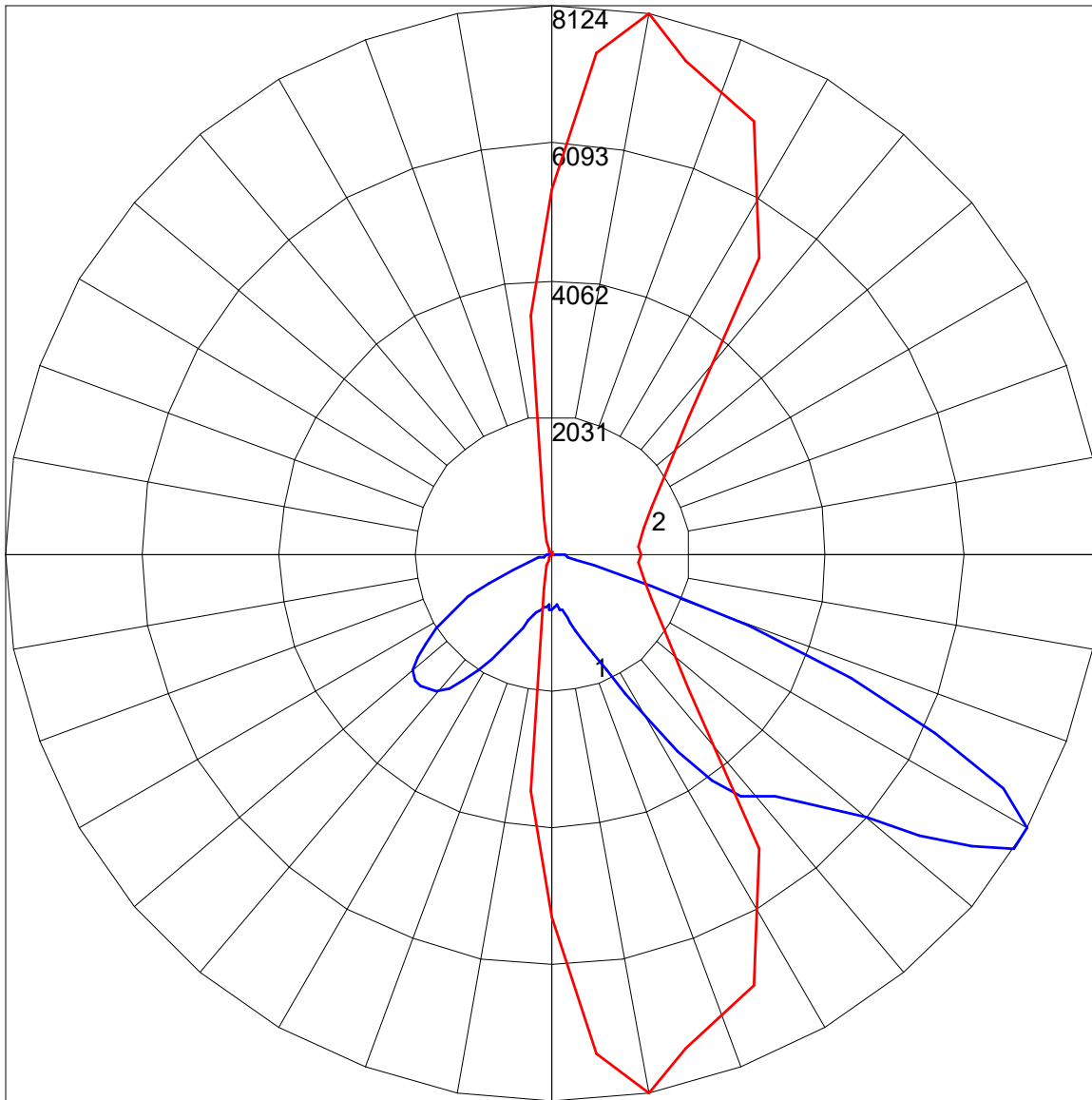
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

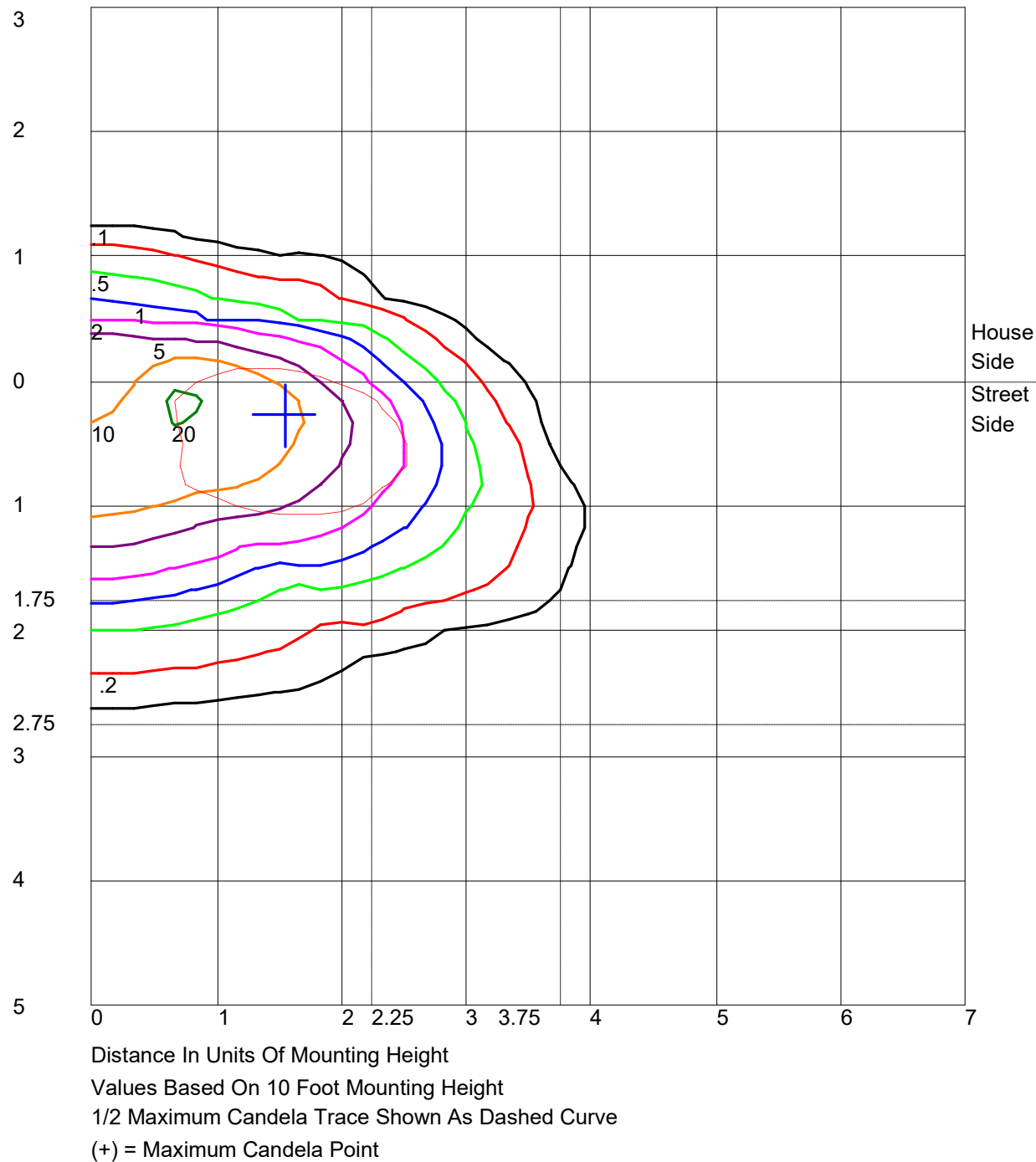
	Lumens	Percent Of Luminaire
Downward Street Side	6589.8	82.9
Downward House Side	1344.7	16.9
Downward Total	7934.5	99.9
Upward Street Side	3.2	0.0
Upward House Side	6.8	0.1
Upward Total	10.0	0.1
Total Flux	7944.5	100.0

POLAR GRAPH

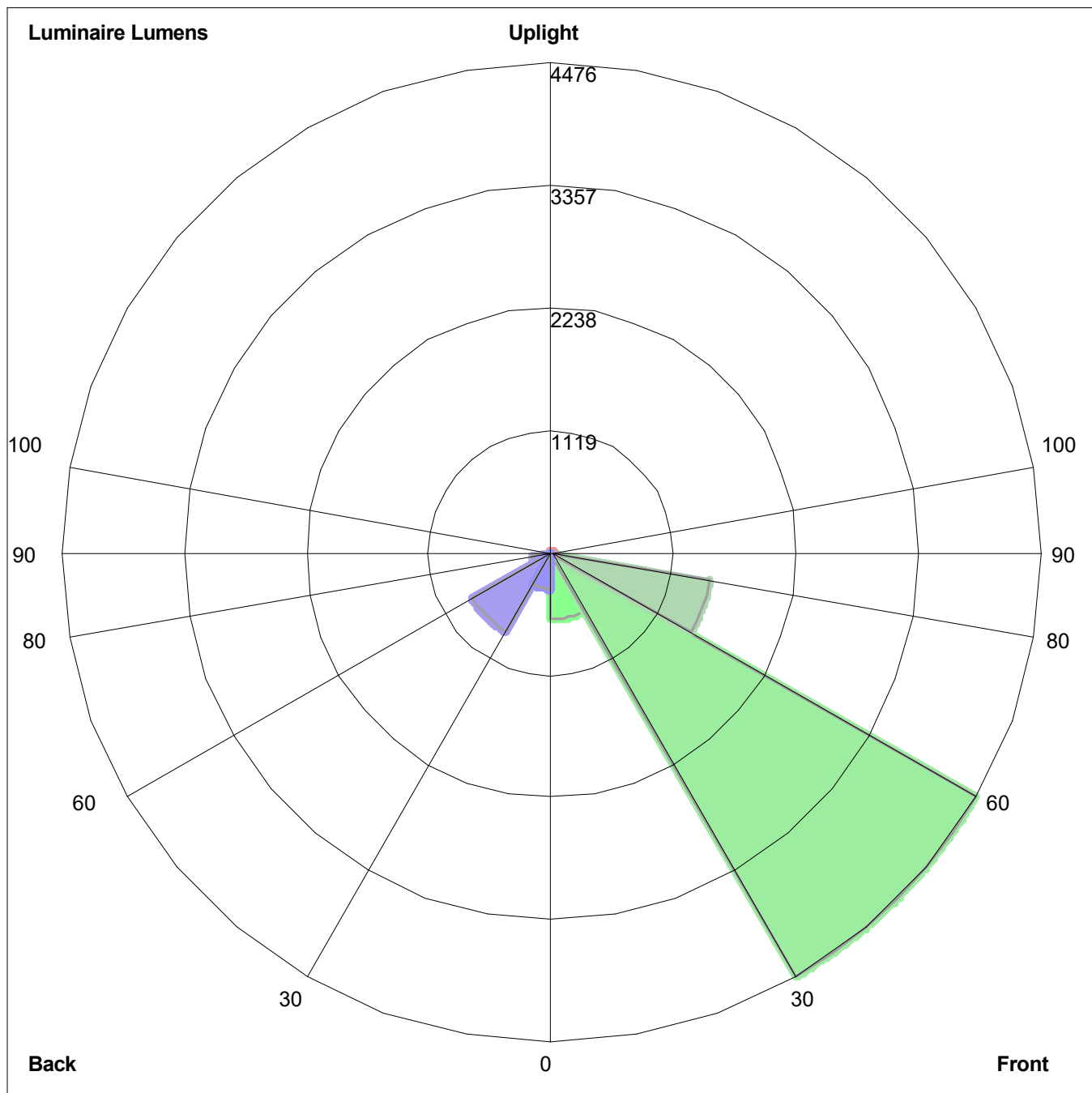


Maximum Candela = 8124 Located At Horizontal Angle = 80, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=613.3, Medium=4475.8, High=1469.6, Very High=31.1
Back: Low=332.6, Medium=833.8, High=172.7, Very High=5.6
Uplight: Low=2.3, High=7.6

BUG Rating : B1-U1-G1