



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11761

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-FT-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7562
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	5328
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	5328
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	22 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	670 (8.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	422.9	N.A.	5.6
FM - Front-Medium (30-60)	3440.2	N.A.	45.5
FH - Front-High (60-80)	2495.9	N.A.	33.0
FVH - Front-Very High (80-90)	90.7	N.A.	1.2
BL - Back-Low (0-30)	287.7	N.A.	3.8
BM - Back-Medium (30-60)	677.7	N.A.	9.0
BH - Back-High (60-80)	118.5	N.A.	1.6
BVH - Back-Very High (80-90)	6.0	N.A.	0.1
UL - Uplight-Low (90-100)	5.5	N.A.	0.1
UH - Uplight-High (100-180)	16.9	N.A.	0.2
Total	7562.0	N.A.	100.0
BUG Rating	B1-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	40	45	55	65	75
0.0	750	750	750	750	750	750	750	750	750	750
2.5	734	741	745	741	746	745	754	754	749	746
5.0	686	685	703	718	721	710	716	697	692	684
7.5	651	664	682	668	642	653	647	685	722	723
10.0	646	654	652	638	645	658	677	695	705	724
12.5	703	687	682	658	671	679	687	704	747	761
15.0	742	727	734	737	742	731	726	750	784	808
17.5	792	778	775	792	814	806	822	810	829	871
20.0	878	878	885	887	882	890	906	908	897	948
22.5	967	984	1007	1044	1017	1007	1018	1023	993	1052
25.0	1119	1113	1131	1167	1226	1217	1181	1190	1146	1146
27.5	1368	1336	1357	1349	1383	1415	1408	1374	1320	1271
30.0	1551	1576	1578	1602	1586	1614	1621	1612	1491	1406
32.5	1952	1908	1848	1839	1859	1869	1859	1855	1693	1567
35.0	2163	2186	2127	2146	2113	2147	2107	2102	1922	1717
37.5	2504	2492	2401	2415	2432	2434	2370	2360	2158	1926
40.0	2718	2711	2732	2709	2716	2706	2690	2598	2423	2097
42.5	2881	2888	2902	2938	2992	2956	2939	2885	2675	2252
45.0	3035	3072	3080	3131	3261	3224	3243	3120	2911	2417
47.5	3223	3267	3292	3355	3498	3484	3523	3373	3138	2609
50.0	3428	3465	3507	3613	3758	3786	3826	3683	3423	2798
52.5	3574	3614	3688	3826	4050	4177	4130	4003	3652	2920
55.0	3702	3735	3840	4033	4376	4482	4459	4302	3821	3010
57.5	3838	3873	4002	4248	4660	4748	4738	4527	3922	3011
60.0	3938	3974	4147	4474	4893	5021	5006	4668	3914	2905
62.5	3964	3997	4261	4700	5103	5231	5176	4665	3795	2695
65.0	3641	3707	4082	4701	5215	5328	5264	4510	3493	2341
67.5	3069	3110	3561	4295	4989	5135	4997	4171	3036	1904
70.0	1686	1835	2438	3479	4290	4521	4387	3572	2426	1342
72.5	734	796	1120	1931	3062	3414	3499	2708	1685	841
75.0	553	587	754	1056	1544	1769	1991	1767	1037	557
77.5	443	472	628	830	963	982	1005	990	662	396
80.0	355	385	525	651	670	636	595	487	419	265
82.5	266	288	378	426	351	324	271	205	205	174
85.0	147	154	193	192	138	131	109	91	96	98
87.5	49	55	66	62	44	40	32	30	29	37
90.0	17	18	22	18	13	11	8	5	4	5
92.5	8	8	6	4	4	4	4	4	4	4
95.0	1	1	2	2	4	4	4	4	4	4
97.5	1	1	2	2	3	3	4	4	4	4
100.0	1	1	2	2	3	3	3	3	3	4
102.5	1	1	2	2	3	3	3	3	3	3
105.0	2	1	2	2	3	3	3	3	3	3
107.5	2	2	2	2	3	3	3	3	3	3
110.0	2	2	2	2	3	3	3	3	3	3
112.5	2	2	2	2	3	3	3	3	3	4
115.0	2	2	2	3	3	3	4	3	3	4
117.5	3	3	3	3	3	4	4	4	4	4
120.0	3	3	3	3	4	4	4	4	4	4
122.5	4	4	4	3	4	4	4	4	4	4
125.0	4	4	4	4	4	4	4	4	4	4
127.5	4	4	4	4	4	4	4	4	4	4
130.0	4	4	4	4	4	4	4	4	4	5

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CANDELA TABULATION - (Cont.)

132.5	4	4	4	4	4	4	4	4	4	5
135.0	4	4	4	4	4	4	4	4	4	4
137.5	2	2	2	2	3	3	3	3	3	4
140.0	0	0	1	2	2	2	2	2	3	3
142.5	0	0	1	2	2	2	2	2	2	3
145.0	0	0	1	2	2	2	2	2	2	2
147.5	0	0	1	2	2	2	2	2	2	2
150.0	0	0	1	2	2	2	2	2	2	2
152.5	0	0	1	2	2	2	2	2	2	2
155.0	0	0	1	2	2	2	2	2	2	2
157.5	0	0	1	2	2	2	2	2	2	2
160.0	0	0	1	2	2	2	2	2	2	2
162.5	0	0	1	2	2	2	2	2	2	2
165.0	0	0	1	2	2	2	2	2	2	2
167.5	0	0	1	2	2	2	2	2	2	2
170.0	0	0	1	2	2	2	2	2	2	2
172.5	0	0	1	2	2	2	2	2	2	2
175.0	0	0	1	2	2	2	2	2	2	2
177.5	0	0	1	1	2	2	2	2	2	2
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	750	750	750	750	750	750	750	750	750	750
2.5	752	754	747	747	747	750	755	757	745	732
5.0	698	701	696	708	714	723	731	734	728	705
7.5	716	730	729	750	727	691	662	677	678	700
10.0	731	721	727	735	705	698	682	677	648	678
12.5	755	767	783	776	735	689	687	710	687	691
15.0	831	822	825	789	736	749	738	692	641	588
17.5	868	875	867	847	777	776	733	621	515	454
20.0	971	953	952	861	809	788	642	515	437	412
22.5	1058	1046	1043	950	857	747	557	456	419	408
25.0	1169	1153	1132	1013	901	685	496	440	425	426
27.5	1269	1247	1212	1108	928	617	485	446	457	471
30.0	1355	1353	1288	1151	892	606	495	466	498	521
32.5	1478	1417	1341	1167	858	606	513	491	540	603
35.0	1575	1538	1411	1176	804	616	525	509	591	673
37.5	1718	1645	1509	1151	770	619	527	527	623	706
40.0	1811	1689	1536	1122	748	614	520	524	628	642
42.5	1894	1733	1550	1081	715	602	498	487	552	484
45.0	2001	1783	1578	1033	680	573	457	408	403	343
47.5	2089	1832	1601	985	640	523	390	316	277	240
50.0	2161	1847	1593	946	584	451	316	239	194	176
52.5	2210	1857	1567	915	510	350	235	174	140	132
55.0	2229	1845	1522	870	412	247	160	120	101	99
57.5	2176	1789	1454	794	308	164	112	85	73	73
60.0	2034	1672	1339	671	213	123	86	63	53	52
62.5	1825	1473	1157	538	154	100	68	47	36	36
65.0	1554	1199	906	397	123	81	54	36	27	26
67.5	1161	888	591	246	99	66	42	29	20	18
70.0	761	580	347	142	75	50	33	24	16	14
72.5	444	332	212	93	50	36	26	19	12	8
75.0	316	227	144	65	37	26	21	14	6	4
77.5	223	156	99	49	28	22	16	8	3	2

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CANDELA TABULATION - (Cont.)

80.0	137	99	70	36	23	18	13	6	2	2
82.5	92	69	49	25	18	15	11	5	2	1
85.0	61	42	28	16	15	13	10	5	1	1
87.5	28	17	12	10	11	10	7	4	1	1
90.0	6	4	6	9	11	10	7	4	1	1
92.5	4	4	7	10	11	10	8	5	2	2
95.0	4	3	7	10	11	10	8	5	2	2
97.5	4	3	6	8	9	8	7	5	3	2
100.0	4	3	4	6	7	7	6	5	3	2
102.5	4	3	4	5	6	6	5	4	3	2
105.0	3	3	4	4	5	5	5	4	3	3
107.5	3	3	4	4	5	5	5	4	4	3
110.0	3	4	4	4	5	5	4	4	3	3
112.5	4	4	4	4	5	5	4	4	4	3
115.0	4	4	4	4	5	5	5	4	4	3
117.5	4	4	4	5	5	5	5	5	4	4
120.0	4	4	4	5	5	6	6	5	5	4
122.5	4	5	5	5	6	6	6	6	5	4
125.0	4	5	5	5	6	6	6	6	5	4
127.5	5	5	5	5	6	6	6	6	5	5
130.0	5	5	5	5	6	6	6	6	5	5
132.5	5	5	5	5	5	6	6	5	5	4
135.0	5	5	5	5	5	5	5	4	4	4
137.5	4	4	4	4	4	4	4	3	3	2
140.0	3	3	3	3	3	3	3	2	2	1
142.5	3	3	3	3	3	3	2	2	2	1
145.0	3	3	3	3	3	3	2	2	1	1
147.5	3	3	3	3	3	3	2	2	1	1
150.0	2	3	3	3	3	2	2	2	1	0
152.5	2	3	3	3	3	2	2	2	1	0
155.0	2	2	2	2	2	2	2	2	1	0
157.5	2	2	2	2	2	2	2	1	1	0
160.0	2	2	2	2	2	2	2	1	1	0
162.5	2	2	2	2	2	2	2	1	0	0
165.0	2	2	2	2	2	2	1	1	0	0
167.5	2	2	2	2	2	2	1	1	0	0
170.0	2	2	2	2	2	2	1	1	0	0
172.5	2	2	2	2	2	2	1	1	0	0
175.0	2	2	2	2	2	2	1	1	0	0
177.5	2	2	2	2	2	1	1	1	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	750	750
2.5	734	740
5.0	698	706
7.5	693	687
10.0	698	682
12.5	689	679
15.0	589	588
17.5	448	446
20.0	417	418
22.5	418	425
25.0	450	464

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CANDELA TABULATION - (Cont.)

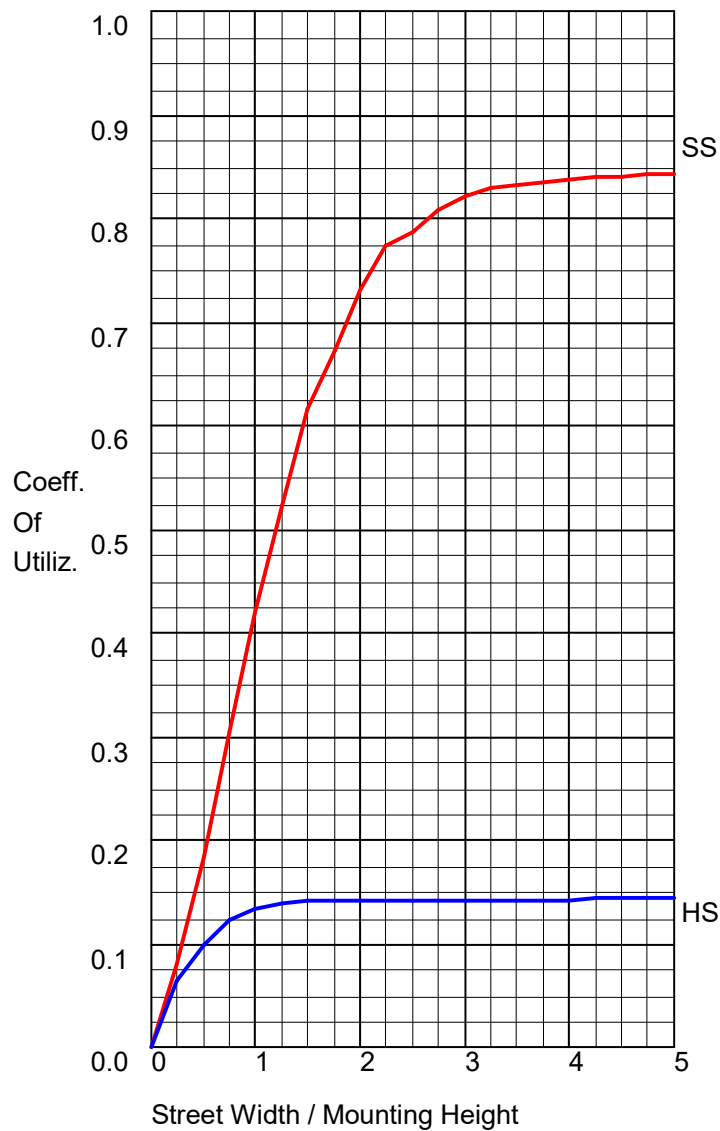
27.5	498	522
30.0	564	570
32.5	660	664
35.0	703	711
37.5	693	685
40.0	571	560
42.5	425	417
45.0	318	316
47.5	241	243
50.0	186	183
52.5	143	142
55.0	109	109
57.5	83	85
60.0	63	65
62.5	48	49
65.0	36	37
67.5	25	27
70.0	18	20
72.5	10	10
75.0	4	4
77.5	1	1
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	1	1
97.5	1	1
100.0	2	2
102.5	2	2
105.0	2	2
107.5	2	2
110.0	2	2
112.5	3	2
115.0	3	3
117.5	3	3
120.0	4	3
122.5	4	4
125.0	4	4
127.5	4	4
130.0	4	4
132.5	4	4
135.0	3	3
137.5	2	2
140.0	1	1
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	1	1

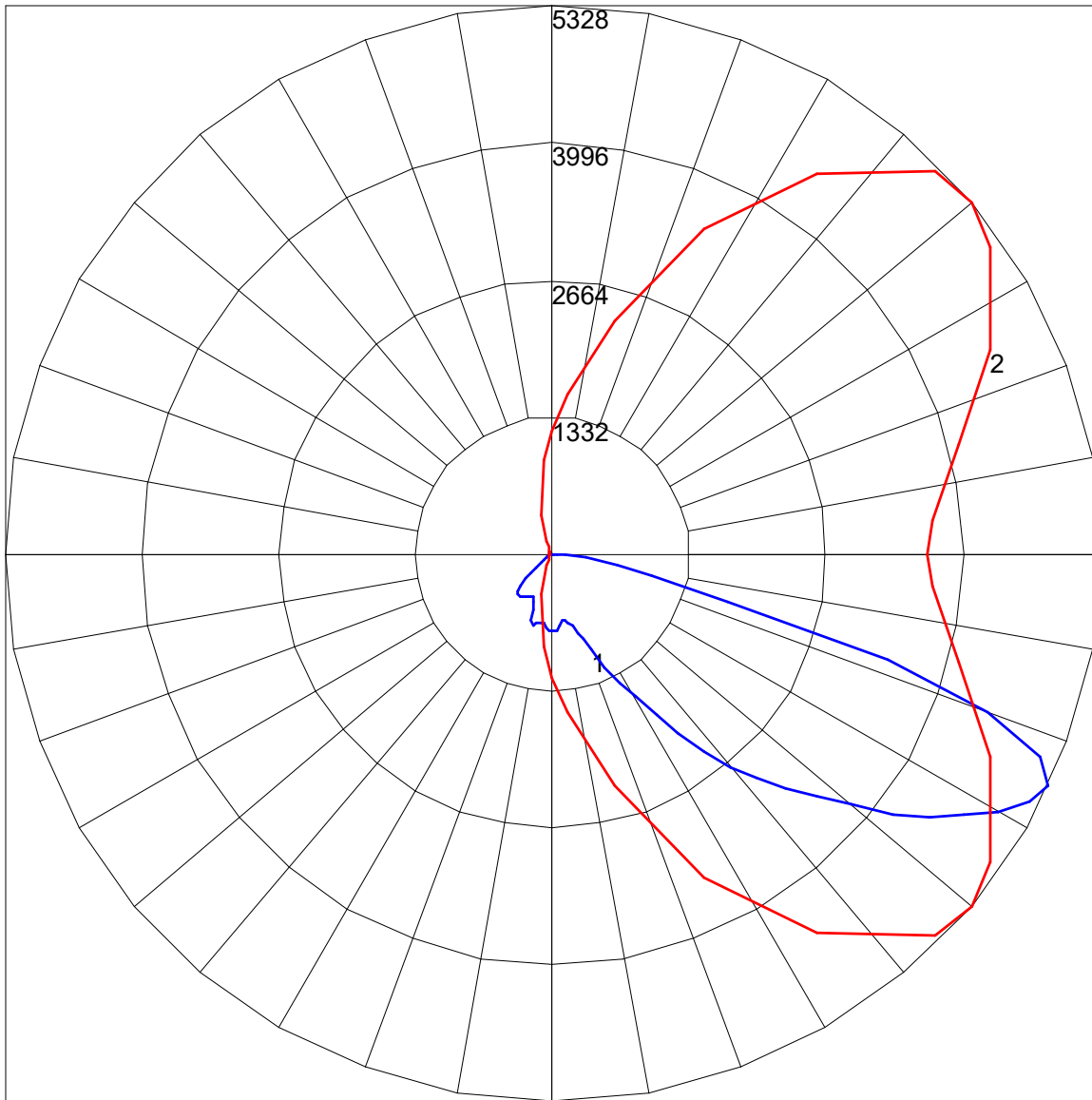
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

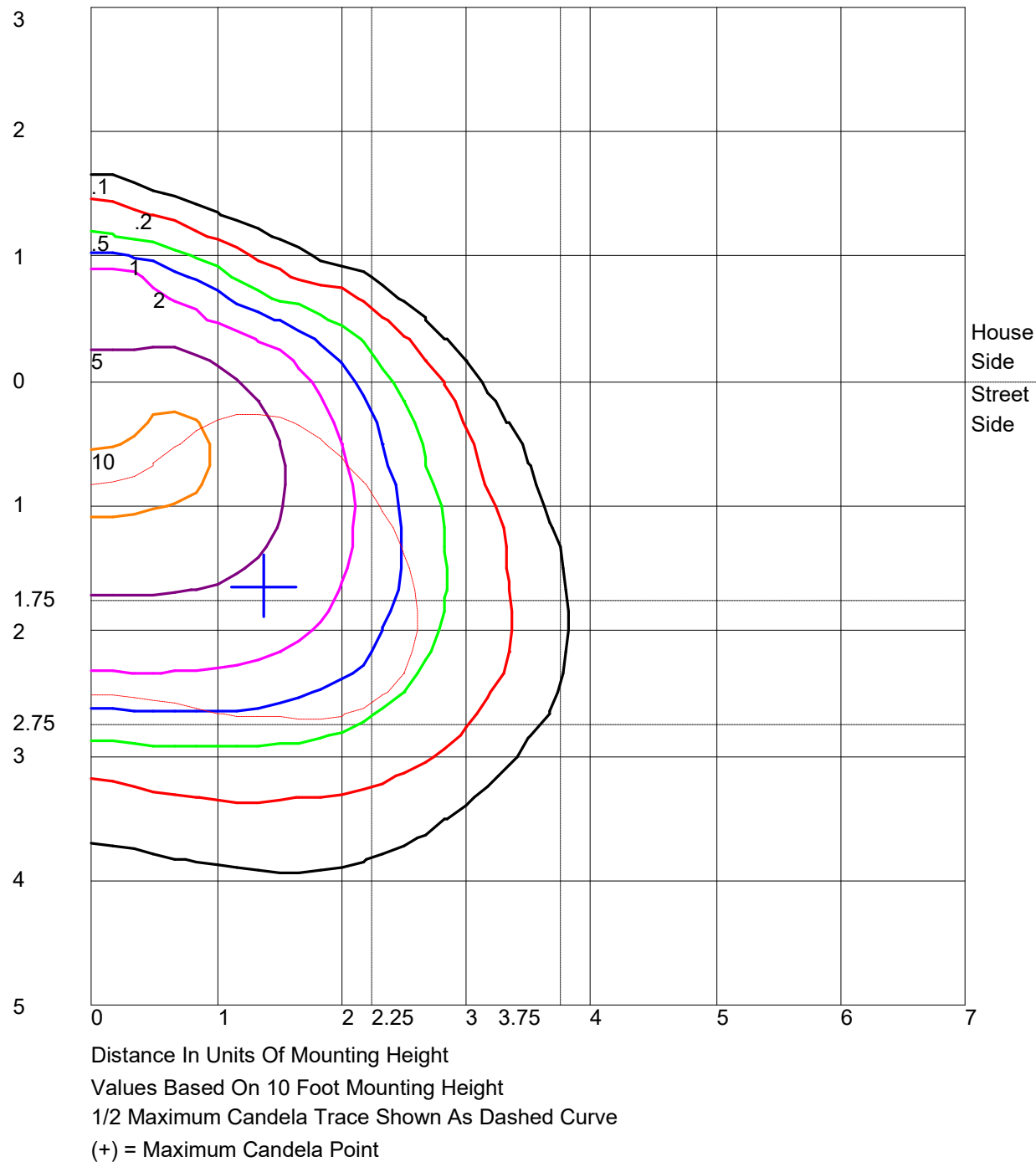
	Lumens	Percent Of Luminaire
Downward Street Side	6449.6	85.3
Downward House Side	1089.8	14.4
Downward Total	7539.4	99.7
Upward Street Side	9.9	0.1
Upward House Side	12.5	0.2
Upward Total	22.4	0.3
Total Flux	7561.8	100.0

POLAR GRAPH

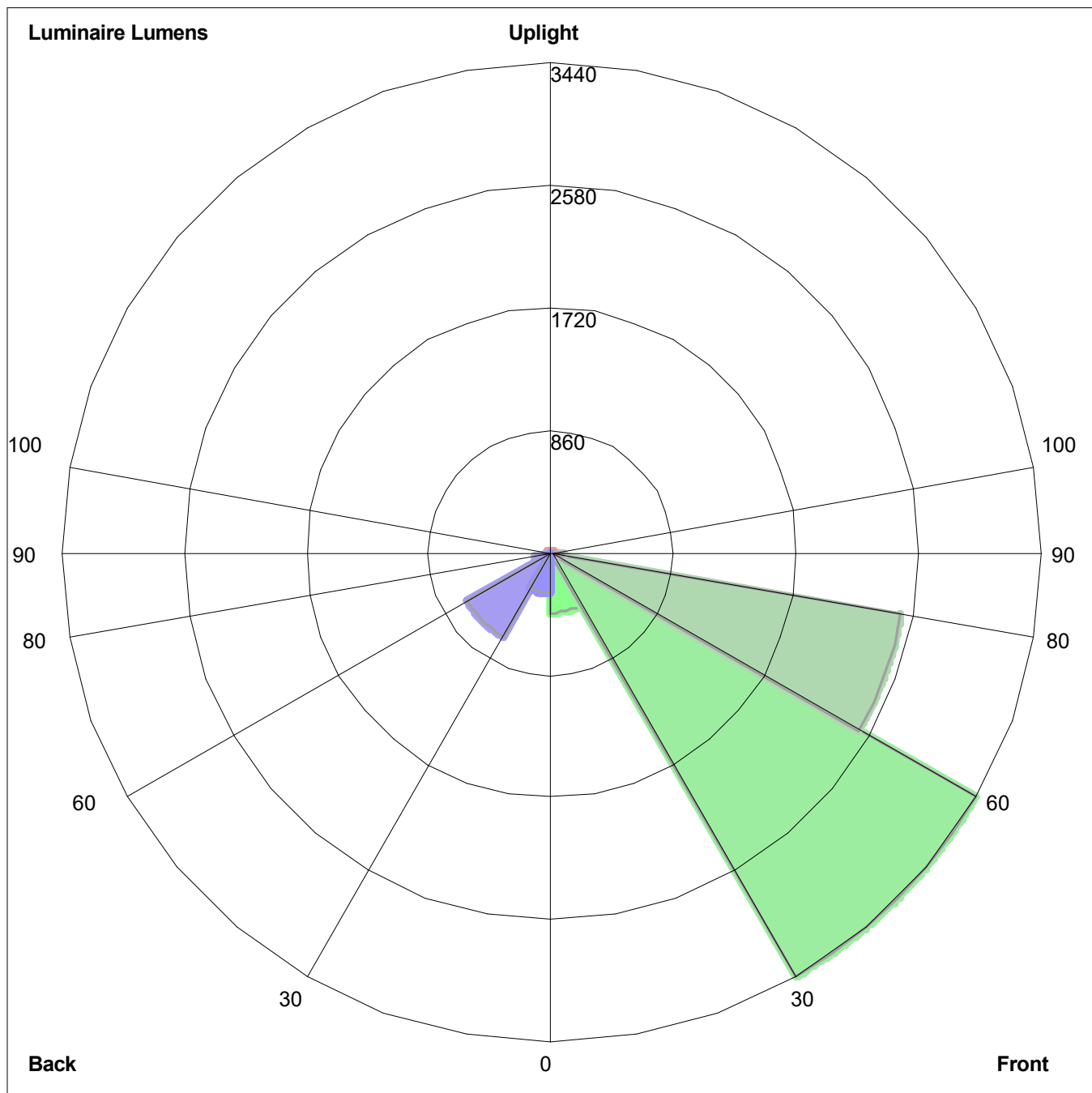


Maximum Candela = 5328 Located At Horizontal Angle = 40, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=422.9, Medium=3440.2, High=2495.9, Very High=90.7
Back: Low=287.7, Medium=677.7, High=118.5, Very High=6.0
Uplight: Low=5.5, High=16.9

BUG Rating : B1-U2-G2