



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-10L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11762

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-FT-LED-10L-40-IL

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

[FACTORED] SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7603
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	77
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5379
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	5379
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	671 (8.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	425.4	N.A.	5.6
FM - Front-Medium (30-60)	3458.9	N.A.	45.5
FH - Front-High (60-80)	2507.8	N.A.	33.0
FVH - Front-Very High (80-90)	91.5	N.A.	1.2
BL - Back-Low (0-30)	289.1	N.A.	3.8
BM - Back-Medium (30-60)	681.4	N.A.	9.0
BH - Back-High (60-80)	119.4	N.A.	1.6
BVH - Back-Very High (80-90)	6.2	N.A.	0.1
UL - Uplight-Low (90-100)	5.6	N.A.	0.1
UH - Uplight-High (100-180)	17.6	N.A.	0.2
Total	7602.9	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	753	753	753	753	753	753	753	753	753	753
2.5	734	744	744	746	745	749	753	757	755	749
5.0	692	690	706	720	720	713	718	702	694	692
7.5	656	668	677	667	647	657	651	691	724	726
10.0	653	658	655	644	649	663	681	699	708	725
12.5	710	693	690	664	672	684	689	706	746	765
15.0	748	732	740	742	746	735	730	751	787	812
17.5	796	785	777	795	818	812	825	813	834	879
20.0	878	880	889	889	887	904	912	910	903	958
22.5	971	987	1012	1046	1025	1021	1025	1033	1001	1058
25.0	1119	1124	1135	1167	1235	1217	1194	1201	1152	1152
27.5	1381	1346	1367	1353	1394	1427	1410	1385	1328	1276
30.0	1565	1585	1589	1605	1599	1629	1635	1627	1502	1410
32.5	1981	1898	1856	1845	1875	1874	1878	1871	1698	1575
35.0	2181	2200	2138	2154	2129	2155	2121	2112	1946	1724
37.5	2511	2512	2410	2429	2449	2450	2386	2384	2171	1930
40.0	2723	2727	2739	2731	2734	2729	2694	2617	2433	2109
42.5	2888	2893	2931	2961	3021	2971	2957	2912	2688	2260
45.0	3059	3081	3102	3159	3293	3242	3253	3138	2915	2440
47.5	3260	3282	3301	3370	3521	3517	3529	3411	3163	2630
50.0	3450	3470	3511	3621	3779	3826	3855	3692	3431	2802
52.5	3610	3637	3703	3857	4076	4168	4164	4017	3673	2932
55.0	3747	3775	3861	4065	4384	4471	4453	4332	3836	3021
57.5	3871	3906	4042	4279	4677	4754	4777	4559	3920	3012
60.0	3972	4010	4186	4515	4923	5034	5028	4687	3923	2903
62.5	3995	4033	4296	4740	5147	5267	5203	4684	3789	2687
65.0	3686	3724	4107	4716	5248	5379	5266	4511	3492	2335
67.5	3110	3118	3597	4313	4994	5162	5030	4182	3031	1903
70.0	1840	1840	2471	3497	4315	4532	4386	3592	2435	1343
72.5	739	802	1135	1951	3090	3426	3487	2759	1679	852
75.0	556	592	761	1064	1550	1775	2062	1758	1039	559
77.5	449	477	627	830	956	986	997	981	663	400
80.0	361	389	525	659	671	639	591	480	419	267
82.5	270	292	383	430	369	326	271	203	207	175
85.0	149	160	195	194	141	132	110	91	97	99
87.5	55	56	66	63	45	41	33	30	29	37
90.0	17	18	22	19	13	11	8	6	4	5
92.5	8	8	6	4	4	4	4	4	4	4
95.0	2	1	2	2	4	4	4	4	4	4
97.5	2	2	2	2	3	3	4	4	4	4
100.0	1	1	2	2	3	3	3	4	3	4
102.5	2	2	2	2	3	3	3	3	3	4
105.0	2	2	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	4
112.5	2	2	2	3	3	3	4	3	3	4
115.0	2	2	2	3	3	4	4	4	4	4
117.5	3	3	3	3	4	4	4	4	4	4
120.0	3	3	3	3	4	4	4	4	4	4
122.5	4	4	4	4	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	5
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	3	3	3	4	4	4	4
140.0	0	0	1	2	2	2	2	3	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	3
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	2	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	753	753	753	753	753	753	753	753	753	753
2.5	754	758	751	749	753	753	757	761	748	733
5.0	698	704	696	713	717	724	732	736	730	713
7.5	719	732	736	754	730	693	663	681	674	698
10.0	736	716	728	737	709	702	682	680	654	681
12.5	758	774	790	781	737	690	691	714	693	691
15.0	838	827	830	792	738	749	743	695	645	583
17.5	875	879	867	855	782	775	737	623	520	460
20.0	979	960	954	861	812	790	645	517	440	415
22.5	1066	1052	1042	952	863	749	557	458	423	413
25.0	1178	1161	1138	1017	909	690	498	443	426	428
27.5	1276	1257	1217	1110	935	621	488	450	458	476
30.0	1363	1365	1296	1150	899	610	498	471	502	526
32.5	1487	1429	1343	1170	860	611	514	496	543	614
35.0	1589	1554	1415	1182	807	620	529	515	593	680
37.5	1732	1648	1515	1155	774	622	530	531	626	712
40.0	1827	1700	1547	1125	752	618	522	526	627	647
42.5	1915	1742	1556	1086	718	606	498	490	552	489
45.0	2014	1801	1595	1039	683	576	459	411	408	343
47.5	2105	1842	1615	989	643	523	392	319	280	242
50.0	2176	1852	1593	950	590	451	318	242	196	177
52.5	2217	1856	1570	917	512	358	236	175	142	134
55.0	2229	1842	1533	869	414	253	162	122	103	100
57.5	2183	1782	1467	793	309	166	114	85	74	73
60.0	2051	1670	1344	672	215	123	87	63	53	52
62.5	1829	1469	1161	541	156	100	69	48	37	37
65.0	1540	1199	908	397	124	82	55	37	27	26
67.5	1161	887	595	244	100	67	43	30	20	18
70.0	763	584	352	143	75	51	34	24	16	14
72.5	449	333	215	93	51	36	26	20	13	9
75.0	320	227	147	67	38	27	22	14	7	4
77.5	226	157	101	50	29	22	17	9	4	2

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CANDELA TABULATION - (Cont.)

80.0	138	102	71	36	23	19	13	6	2	2
82.5	92	69	50	26	19	16	12	6	2	2
85.0	61	43	28	17	15	14	10	5	2	1
87.5	28	17	13	10	11	10	8	4	1	1
90.0	6	4	6	10	11	10	7	4	2	1
92.5	4	4	7	10	12	10	8	5	2	2
95.0	4	4	7	10	11	10	8	6	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	6	5	4	3
105.0	4	3	4	4	5	6	5	4	4	3
107.5	4	4	4	4	5	5	5	4	4	3
110.0	4	4	4	4	5	5	5	4	4	3
112.5	4	4	4	4	5	5	5	4	4	3
115.0	4	4	4	5	5	5	5	5	4	4
117.5	4	4	4	5	5	5	5	5	4	4
120.0	4	4	5	5	6	6	6	5	5	4
122.5	4	5	5	5	6	6	6	6	5	4
125.0	5	5	5	6	6	6	6	6	6	5
127.5	5	5	5	5	6	6	6	6	6	5
130.0	5	5	5	5	6	6	6	6	6	5
132.5	5	5	5	5	6	6	6	6	5	5
135.0	5	5	5	5	5	5	5	5	4	4
137.5	4	4	4	4	4	4	4	4	3	2
140.0	3	3	3	4	4	3	3	3	2	2
142.5	3	3	3	3	3	3	3	2	2	1
145.0	3	3	3	3	3	3	2	2	2	1
147.5	3	3	3	3	3	3	2	2	1	1
150.0	3	3	3	3	3	3	2	2	1	1
152.5	3	3	3	3	3	2	2	2	1	0
155.0	2	3	3	3	3	2	2	2	1	0
157.5	2	2	3	3	2	2	2	2	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	2	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	2	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	753	753
2.5	740	739
5.0	705	708
7.5	699	691
10.0	704	691
12.5	696	686
15.0	593	591
17.5	451	450
20.0	420	424
22.5	421	429
25.0	454	467

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

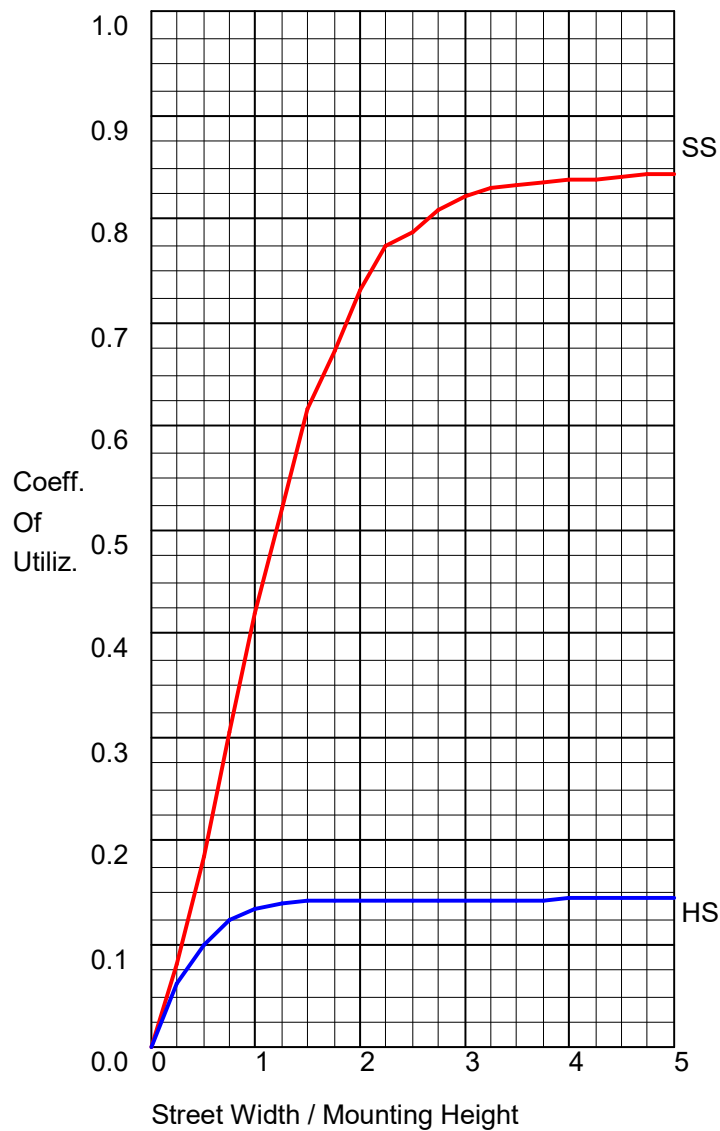
27.5	507	525
30.0	570	573
32.5	666	670
35.0	709	714
37.5	700	687
40.0	578	561
42.5	429	419
45.0	321	317
47.5	243	244
50.0	187	189
52.5	144	143
55.0	110	110
57.5	84	85
60.0	64	65
62.5	49	50
65.0	37	38
67.5	26	27
70.0	19	20
72.5	11	12
75.0	4	5
77.5	1	2
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	1	1
97.5	2	2
100.0	2	2
102.5	2	2
105.0	2	2
107.5	2	2
110.0	2	3
112.5	3	3
115.0	3	3
117.5	3	3
120.0	4	4
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

IES ROAD REPORT
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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

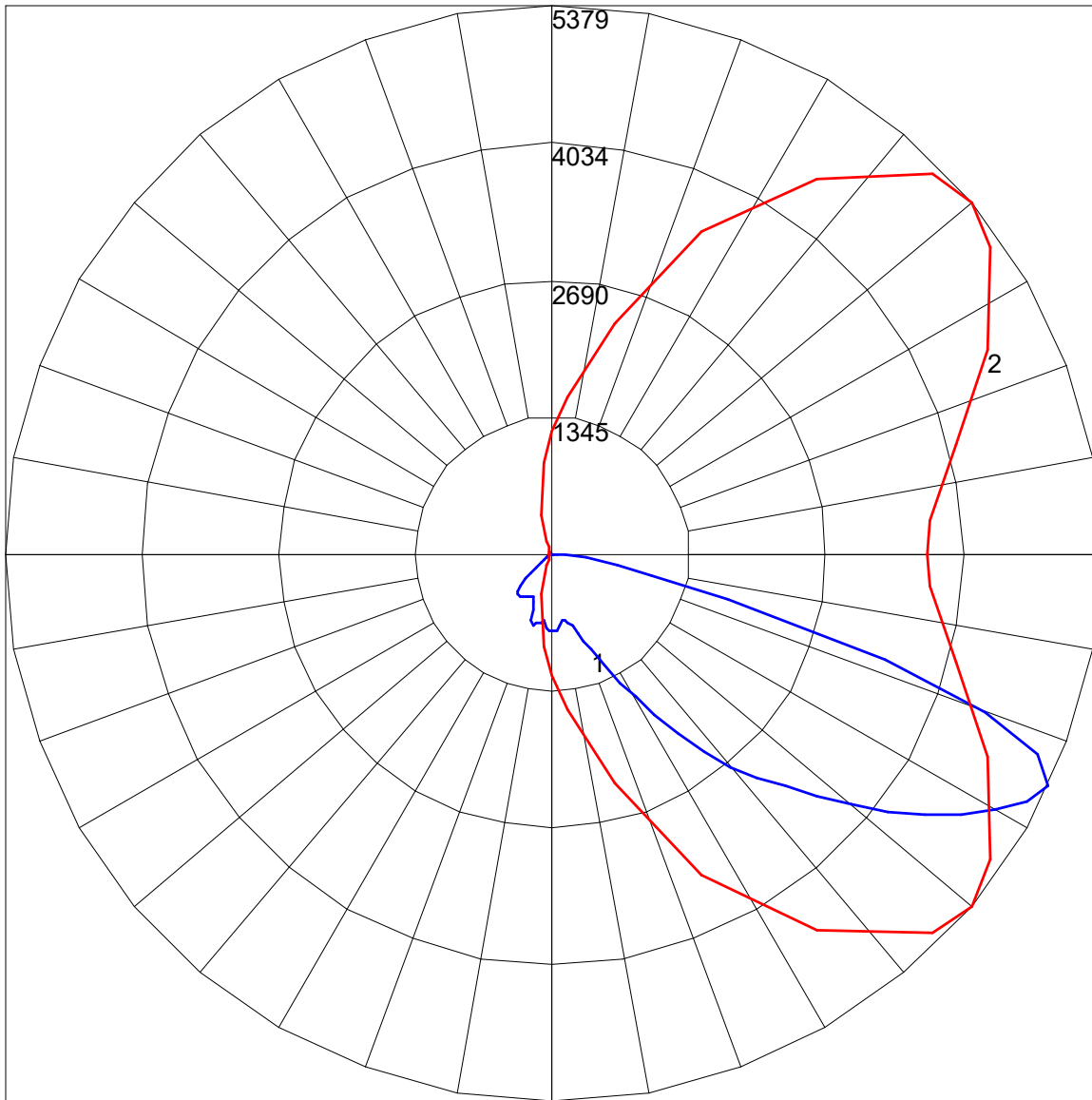
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

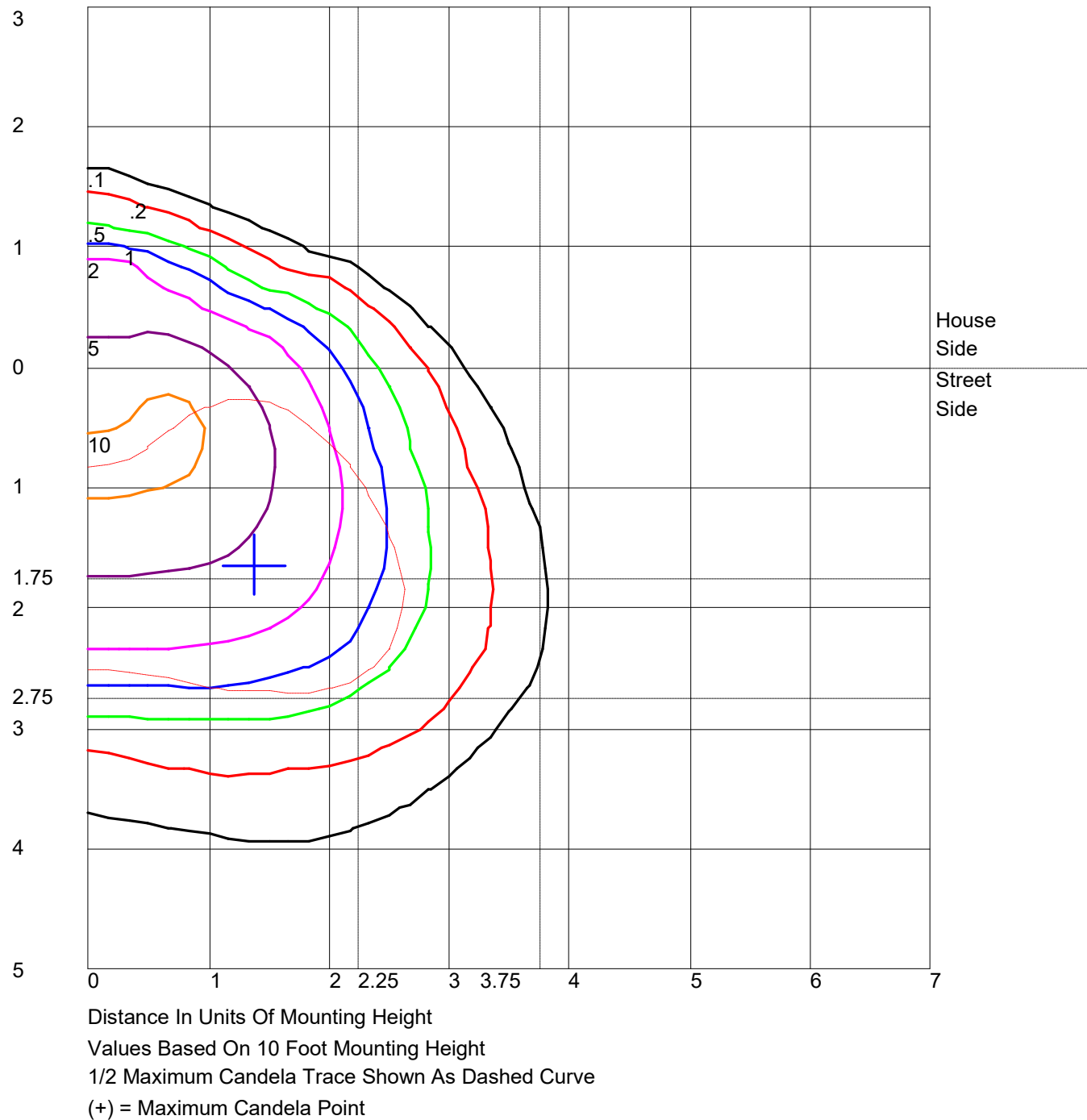
	Lumens	Percent Of Luminaire
Downward Street Side	6483.5	85.3
Downward House Side	1096.1	14.4
Downward Total	7579.6	99.7
Upward Street Side	10.2	0.1
Upward House Side	13.0	0.2
Upward Total	23.2	0.3
Total Flux	7602.8	100.0

POLAR GRAPH

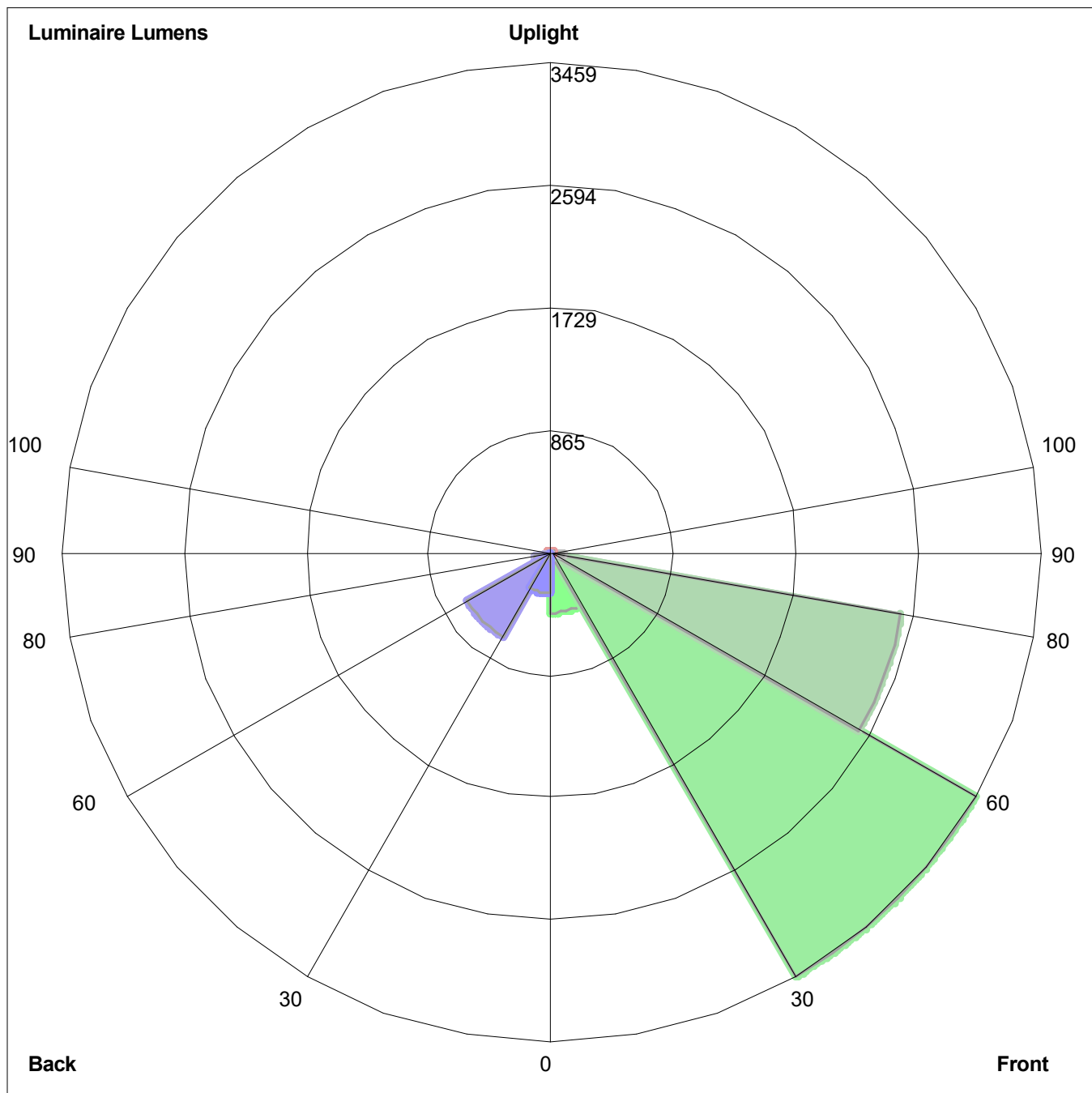


Maximum Candela = 5379 Located At Horizontal Angle = 40, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=425.4, Medium=3458.9, High=2507.8, Very High=91.5
Back: Low=289.1, Medium=681.4, High=119.4, Very High=6.2
Uplight: Low=5.6, High=17.6

BUG Rating : B1-U2-G2