



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-2-LED-10L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11670

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/01/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-2-LED-10L-30

[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	9090
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	77.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7335
Maximum Candela Angle	82.5H 65V
Maximum Candela (<90 Degrees Vertical)	7335
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 65V
Maximum Candela At 90 Degrees Vertical	12 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	479 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-10L-30.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	493.3	N.A.	5.4
FM - Front-Medium (30-60)	3418.3	N.A.	37.6
FH - Front-High (60-80)	1782.4	N.A.	19.6
FVH - Front-Very High (80-90)	40.1	N.A.	0.4
BL - Back-Low (0-30)	388.8	N.A.	4.3
BM - Back-Medium (30-60)	2060.6	N.A.	22.7
BH - Back-High (60-80)	839.7	N.A.	9.2
BVH - Back-Very High (80-90)	51.6	N.A.	0.6
UL - Uplight-Low (90-100)	4.1	N.A.	0.0
UH - Uplight-High (100-180)	11.3	N.A.	0.1
Total	9090.2	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>82.5</u>
0.0	787	787	787	787	787	787	787	787	787	787
2.5	804	804	791	789	793	795	793	784	766	767
5.0	771	783	777	783	776	770	766	746	749	743
7.5	783	793	777	792	754	784	770	766	786	761
10.0	808	802	795	792	796	814	828	809	810	804
12.5	891	871	862	852	845	870	891	899	869	878
15.0	928	900	923	937	938	955	962	985	977	924
17.5	964	942	972	968	1025	1050	1052	1078	1082	1042
20.0	1066	1043	1070	1053	1052	1125	1162	1170	1208	1199
22.5	1082	1112	1136	1166	1172	1204	1289	1297	1355	1359
25.0	1185	1195	1207	1233	1300	1306	1398	1440	1468	1517
27.5	1392	1362	1376	1377	1401	1461	1533	1602	1641	1689
30.0	1553	1580	1569	1556	1565	1601	1689	1750	1864	1875
32.5	1996	1922	1846	1756	1784	1794	1851	1906	2055	2049
35.0	2277	2288	2152	2104	2009	2008	2046	2120	2200	2307
37.5	2783	2768	2561	2412	2318	2304	2283	2267	2412	2498
40.0	3005	2999	2933	2785	2649	2662	2521	2517	2568	2688
42.5	3173	3164	3104	3029	3024	2937	2840	2754	2683	2822
45.0	3246	3259	3201	3170	3210	3221	3132	3002	2822	3002
47.5	3181	3196	3178	3211	3307	3444	3487	3336	3012	3237
50.0	2993	2993	3040	3092	3292	3630	3880	3812	3286	3527
52.5	2605	2646	2707	2826	3153	3668	4309	4325	3649	3925
55.0	2094	2103	2214	2398	2803	3525	4600	4936	4119	4421
57.5	1565	1570	1651	1848	2231	3090	4736	5549	4689	5029
60.0	1103	1109	1160	1275	1598	2449	4601	6057	5381	5855
62.5	774	777	781	837	1064	1684	4045	6321	6063	6684
65.0	561	564	564	592	711	1057	3174	6127	6599	7335
67.5	417	415	421	444	514	685	2239	5298	6525	7076
70.0	312	312	317	342	397	490	1360	3775	5438	5281
72.5	191	205	210	252	309	378	773	2238	3503	2698
75.0	112	123	116	149	209	289	464	1341	1659	967
77.5	95	107	89	98	116	180	305	812	847	446
80.0	93	100	80	73	81	116	172	479	452	247
82.5	88	89	63	52	54	81	94	246	252	150
85.0	70	66	45	34	34	50	57	72	114	79
87.5	25	25	22	16	14	17	18	19	23	26
90.0	5	5	5	4	2	1	1	2	4	4
92.5	4	4	4	3	1	1	0	1	3	3
95.0	4	4	3	2	1	1	0	0	1	1
97.5	3	3	3	2	1	1	0	0	1	1
100.0	3	3	3	2	1	1	0	0	0	1
102.5	3	3	2	2	1	1	0	0	0	1
105.0	3	3	2	2	1	1	0	0	0	1
107.5	3	3	3	2	1	1	0	0	0	1
110.0	3	3	3	2	1	1	0	0	1	1
112.5	3	3	3	3	2	1	0	0	1	1
115.0	4	4	3	3	2	1	0	0	1	1
117.5	4	4	4	3	2	1	1	1	1	1
120.0	5	5	4	4	3	2	1	1	1	2
122.5	5	5	5	4	3	2	1	1	2	2
125.0	5	5	5	5	4	3	1	1	2	3
127.5	5	5	5	5	4	3	1	1	2	3
130.0	5	5	5	5	4	3	1	1	2	3

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CANDELA TABULATION - (Cont.)

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

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	787	787	787	787	787	787	787	787	787	787
2.5	771	777	775	775	778	771	771	772	779	781
5.0	744	747	741	704	734	730	737	728	733	717
7.5	753	760	762	753	742	717	671	674	684	691
10.0	809	787	761	770	729	711	677	671	638	657
12.5	847	856	833	818	765	709	680	694	672	689
15.0	945	934	908	854	776	749	722	719	703	681
17.5	1029	1013	982	911	812	783	770	740	723	708
20.0	1173	1135	1096	977	871	827	775	771	770	766
22.5	1324	1278	1242	1078	959	885	822	805	825	866
25.0	1487	1444	1389	1214	1093	934	855	869	909	971
27.5	1683	1641	1573	1396	1218	978	922	966	1054	1120
30.0	1851	1819	1735	1527	1324	1069	1042	1089	1173	1254
32.5	2079	2034	1931	1694	1422	1204	1196	1223	1340	1480
35.0	2290	2276	2163	1872	1497	1332	1360	1398	1517	1650
37.5	2503	2492	2384	2060	1641	1480	1500	1583	1652	1820
40.0	2705	2682	2563	2255	1755	1634	1655	1717	1775	1899
42.5	2870	2860	2731	2365	1844	1757	1763	1807	1794	1860
45.0	3067	3070	2917	2454	1910	1813	1789	1787	1727	1746
47.5	3309	3317	3148	2517	1953	1820	1738	1685	1599	1560
50.0	3626	3620	3399	2568	1982	1782	1640	1526	1404	1350
52.5	4002	3981	3654	2608	1971	1701	1508	1352	1208	1149
55.0	4482	4428	3944	2622	1947	1593	1362	1195	1050	985
57.5	5070	4953	4230	2620	1904	1489	1228	1078	931	885
60.0	5802	5517	4480	2573	1839	1383	1131	979	833	788
62.5	6633	5994	4509	2424	1721	1265	1030	894	716	670
65.0	7084	5921	4168	2098	1506	1102	896	767	580	526
67.5	6513	4952	3209	1549	1184	874	704	608	437	385
70.0	4713	3281	2054	1009	806	620	528	449	321	286
72.5	2296	1559	1072	650	565	451	395	331	236	202
75.0	803	621	549	443	396	336	300	232	157	137
77.5	373	310	318	318	297	262	211	160	120	110

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CANDELA TABULATION - (Cont.)

80.0	223	194	194	232	234	190	145	125	109	114
82.5	126	111	111	179	173	121	109	118	148	153
85.0	65	59	61	108	83	81	89	119	157	135
87.5	23	21	22	30	33	37	38	53	65	50
90.0	4	4	5	6	10	12	12	9	4	5
92.5	3	3	5	6	9	11	11	8	4	5
95.0	2	2	4	5	8	9	9	6	3	4
97.5	1	1	3	5	6	7	6	5	2	4
100.0	1	1	3	4	5	5	5	4	2	3
102.5	1	1	2	4	4	5	4	3	2	3
105.0	1	1	2	3	4	4	3	3	2	3
107.5	1	1	2	3	3	3	3	2	2	3
110.0	1	1	2	3	3	3	3	3	2	3
112.5	1	2	2	3	3	3	3	3	3	3
115.0	1	2	2	3	3	4	3	3	3	4
117.5	1	2	2	3	4	4	4	3	3	4
120.0	2	2	3	4	4	4	4	4	4	4
122.5	2	3	3	4	4	4	4	4	4	5
125.0	3	4	4	4	4	4	4	5	5	5
127.5	3	4	4	4	4	4	4	5	5	5
130.0	3	4	4	4	4	4	4	5	5	5
132.5	3	4	4	4	4	4	4	5	5	5
135.0	2	3	3	4	4	4	4	4	5	5
137.5	1	1	1	2	2	3	3	3	4	4
140.0	0	0	0	1	1	1	2	2	2	3
142.5	0	0	0	0	1	1	2	2	2	2
145.0	0	0	0	0	1	1	2	2	2	2
147.5	0	0	0	0	1	1	2	2	2	2
150.0	0	0	0	0	1	1	2	2	2	2
152.5	0	0	0	0	1	1	2	2	2	2
155.0	0	0	0	0	1	1	2	2	2	2
157.5	0	0	0	0	1	1	2	2	2	2
160.0	0	0	0	0	1	1	2	2	2	1
162.5	0	0	0	0	1	1	2	2	2	1
165.0	0	0	0	0	1	1	1	2	2	1
167.5	0	0	0	0	0	1	1	1	1	1
170.0	0	0	0	0	0	1	1	1	1	1
172.5	0	0	0	0	0	1	1	1	1	1
175.0	0	0	0	0	0	1	1	1	1	1
177.5	0	0	0	0	0	1	1	1	1	1
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	787	787
2.5	784	780
5.0	727	725
7.5	692	710
10.0	660	670
12.5	688	710
15.0	706	727
17.5	743	740
20.0	817	797
22.5	878	896
25.0	994	1009

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CANDELA TABULATION - (Cont.)

27.5	1141	1166
30.0	1306	1336
32.5	1541	1546
35.0	1722	1718
37.5	1910	1903
40.0	1949	1946
42.5	1901	1891
45.0	1764	1746
47.5	1567	1554
50.0	1333	1331
52.5	1121	1116
55.0	973	963
57.5	878	868
60.0	772	760
62.5	642	629
65.0	495	482
67.5	368	357
70.0	279	276
72.5	201	196
75.0	157	156
77.5	134	134
80.0	139	143
82.5	176	178
85.0	142	146
87.5	43	43
90.0	4	4
92.5	4	4
95.0	4	3
97.5	3	3
100.0	3	3
102.5	3	3
105.0	3	3
107.5	3	3
110.0	3	3
112.5	3	3
115.0	4	4
117.5	4	4
120.0	4	4
122.5	5	5
125.0	5	5
127.5	5	5
130.0	5	5
132.5	5	5
135.0	5	5
137.5	4	4
140.0	3	3
142.5	2	3
145.0	2	2
147.5	2	2
150.0	2	2
152.5	2	2
155.0	2	2
157.5	2	2
160.0	1	1
162.5	1	1
165.0	1	1

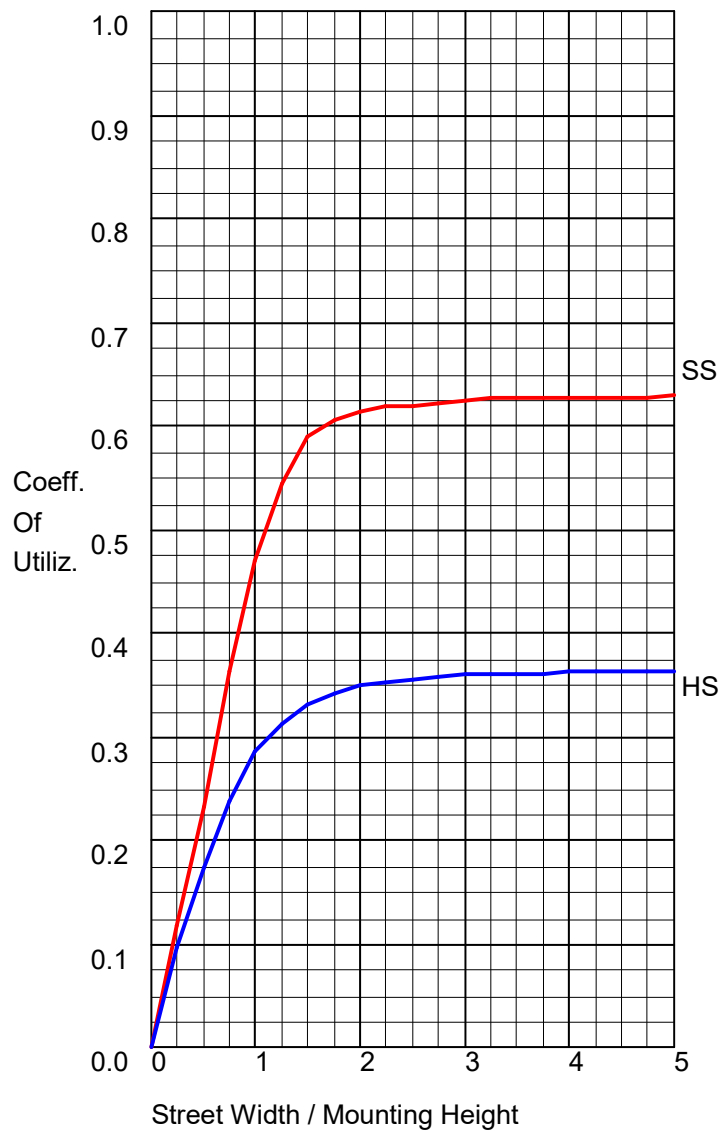
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CANDELA TABULATION - (Cont.)

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

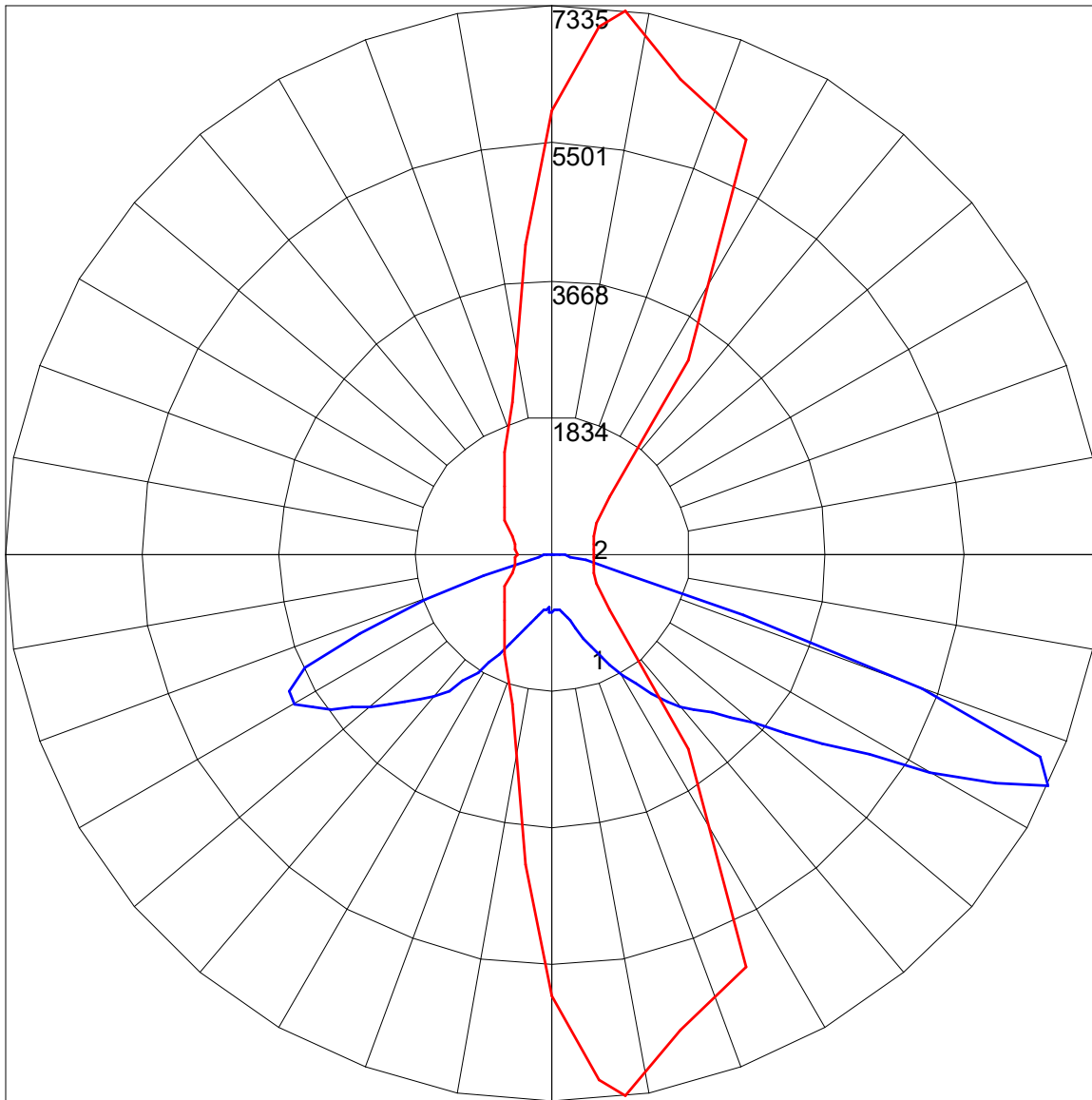
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

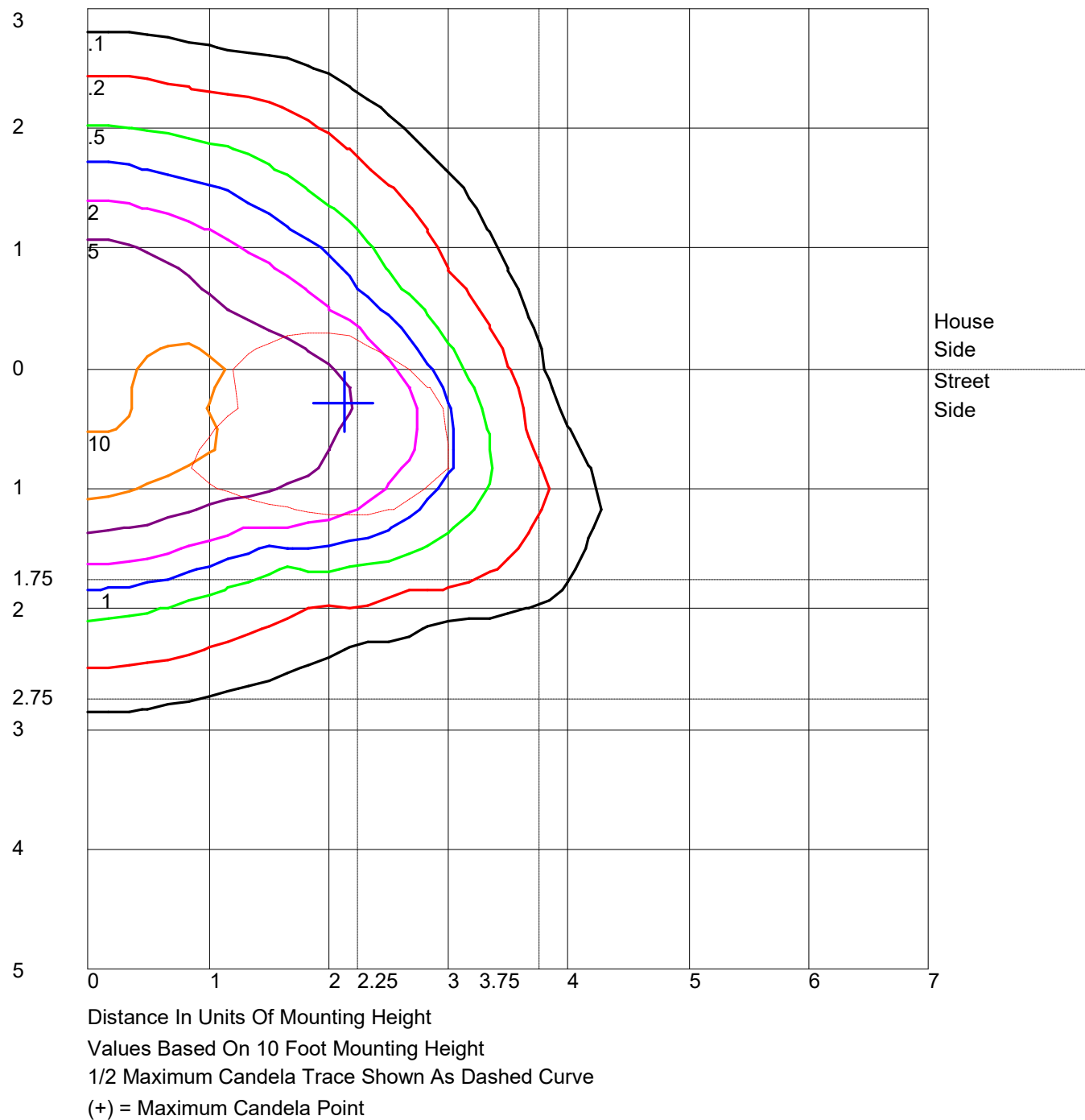
	Lumens	Percent Of Luminaire
Downward Street Side	5734.0	63.1
Downward House Side	3340.8	36.8
Downward Total	9074.8	99.8
Upward Street Side	4.8	0.1
Upward House Side	10.6	0.1
Upward Total	15.4	0.2
Total Flux	9090.2	100.0

POLAR GRAPH

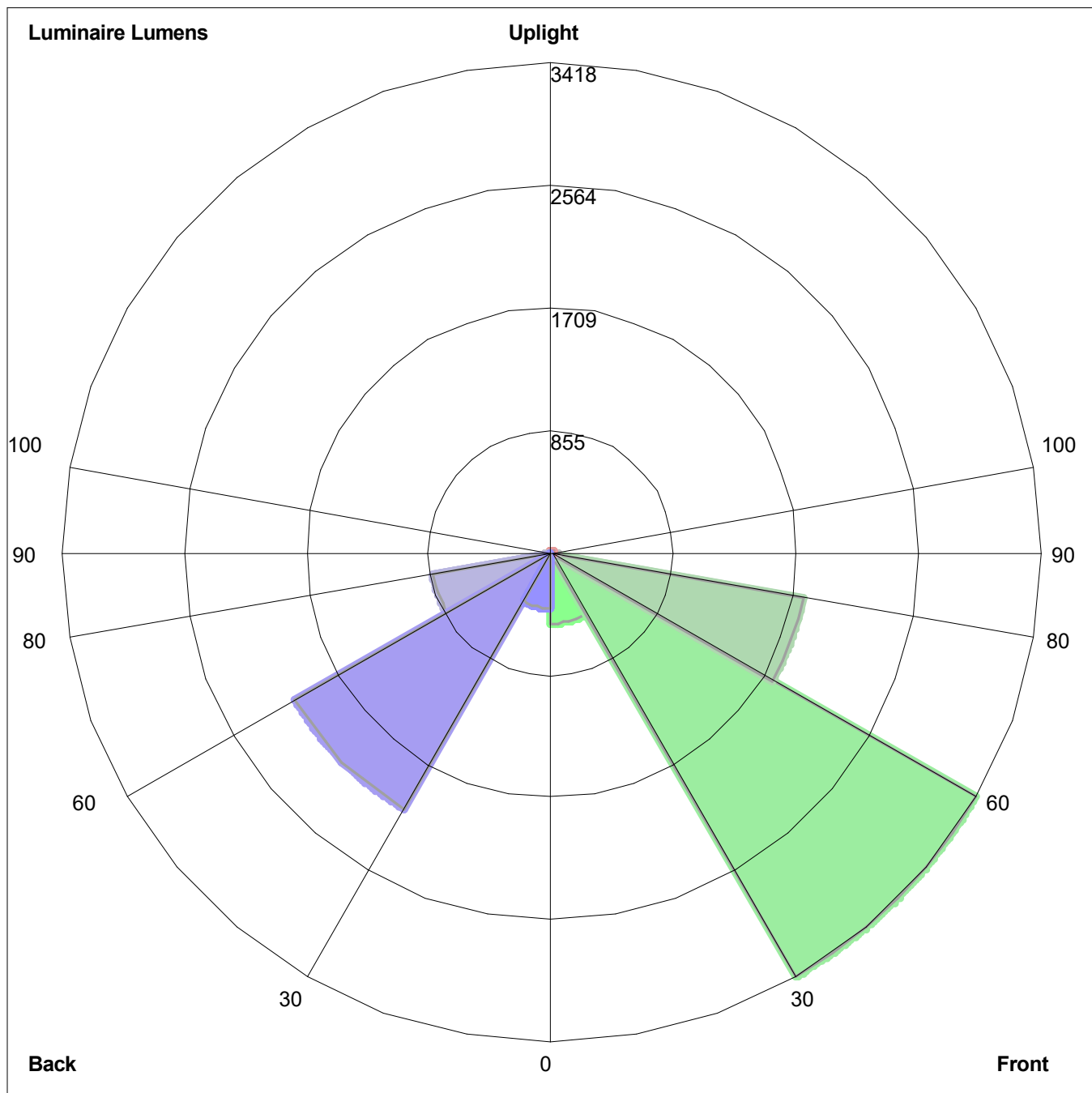


Maximum Candela = 7335 Located At Horizontal Angle = 82.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=493.3, Medium=3418.3, High=1782.4, Very High=40.1
Back: Low=388.8, Medium=2060.6, High=839.7, Very High=51.6
Uplight: Low=4.1, High=11.3

BUG Rating : B2-U2-G2