



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-10L-50-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-50-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	7958
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	5631
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	5631
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	23 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	702 (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)	445.3	N.A.	5.6
FM - Front-Medium (30-60)	3621.1	N.A.	45.5
FH - Front-High (60-80)	2625.4	N.A.	33.0
FVH - Front-Very High (80-90)	95.8	N.A.	1.2
BL - Back-Low (0-30)	302.7	N.A.	3.8
BM - Back-Medium (30-60)	713.3	N.A.	9.0
BH - Back-High (60-80)	125.0	N.A.	1.6
BVH - Back-Very High (80-90)	6.4	N.A.	0.1
UL - Uplight-Low (90-100)	5.7	N.A.	0.1
UH - Uplight-High (100-180)	17.6	N.A.	0.2
Total	7958.3	N.A.	100.0
BUG Rating	B1-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>40</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	788	788	788	788	788	788	788	788	788	788
2.5	768	779	779	781	780	784	788	793	790	784
5.0	724	722	739	754	754	746	752	735	727	724
7.5	687	699	709	698	677	688	682	723	758	760
10.0	684	689	686	674	679	694	713	732	741	759
12.5	743	726	722	695	704	716	721	739	781	801
15.0	783	766	775	777	781	769	764	786	824	850
17.5	833	822	813	832	856	850	864	851	873	920
20.0	919	921	931	931	929	946	955	953	945	1003
22.5	1017	1033	1059	1095	1073	1069	1073	1081	1048	1108
25.0	1171	1177	1188	1222	1293	1274	1250	1257	1206	1206
27.5	1446	1409	1431	1416	1459	1494	1476	1450	1390	1336
30.0	1638	1659	1664	1680	1674	1705	1712	1703	1572	1476
32.5	2074	1987	1943	1932	1963	1962	1966	1959	1778	1649
35.0	2283	2303	2238	2255	2229	2256	2220	2211	2037	1805
37.5	2629	2630	2523	2543	2564	2565	2498	2496	2273	2021
40.0	2851	2855	2867	2859	2862	2857	2820	2740	2547	2208
42.5	3023	3029	3068	3100	3163	3110	3096	3049	2814	2366
45.0	3202	3225	3247	3307	3447	3394	3406	3285	3052	2554
47.5	3413	3436	3456	3528	3686	3682	3695	3571	3311	2753
50.0	3612	3633	3676	3791	3956	4005	4036	3865	3592	2933
52.5	3779	3808	3877	4038	4267	4363	4359	4205	3845	3070
55.0	3923	3952	4042	4256	4590	4681	4662	4535	4016	3163
57.5	4053	4089	4232	4480	4896	4977	5001	4773	4104	3153
60.0	4158	4198	4382	4727	5154	5270	5264	4907	4107	3039
62.5	4182	4222	4497	4962	5388	5514	5447	4904	3967	2813
65.0	3859	3899	4300	4937	5494	5631	5513	4723	3656	2445
67.5	3256	3264	3766	4515	5228	5404	5266	4378	3173	1992
70.0	1926	1926	2587	3661	4517	4745	4592	3760	2549	1406
72.5	774	840	1188	2043	3235	3587	3651	2888	1758	892
75.0	582	620	797	1114	1623	1858	2159	1840	1088	585
77.5	470	499	656	869	1001	1032	1044	1027	694	419
80.0	378	407	550	690	702	669	619	503	439	280
82.5	283	306	401	450	386	341	284	213	217	183
85.0	156	168	204	203	148	138	115	95	102	104
87.5	58	59	69	66	47	43	35	31	30	39
90.0	18	19	23	20	14	12	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	788	788	788	788	788	788	788	788	788	788
2.5	789	794	786	784	788	788	793	797	783	767
5.0	731	737	729	746	751	758	766	771	764	746
7.5	753	766	771	789	764	726	694	713	706	731
10.0	771	750	762	772	742	735	714	712	685	713
12.5	794	810	827	818	772	722	723	747	726	723
15.0	877	866	869	829	773	784	778	728	675	610
17.5	916	920	908	895	819	811	772	652	544	482
20.0	1025	1005	999	901	850	827	675	541	461	434
22.5	1116	1101	1091	997	903	784	583	479	443	432
25.0	1233	1215	1191	1065	952	722	521	464	446	448
27.5	1336	1316	1274	1162	979	650	511	471	479	498
30.0	1427	1429	1357	1204	941	639	521	493	526	551
32.5	1557	1496	1406	1225	900	640	538	519	568	643
35.0	1664	1627	1481	1237	845	649	554	539	621	712
37.5	1813	1725	1586	1209	810	651	555	556	655	745
40.0	1913	1780	1620	1178	787	647	546	551	656	677
42.5	2005	1824	1629	1137	752	634	521	513	578	512
45.0	2108	1885	1670	1088	715	603	481	430	427	359
47.5	2204	1928	1691	1035	673	548	410	334	293	253
50.0	2278	1939	1668	995	618	472	333	253	205	185
52.5	2321	1943	1644	960	536	375	247	183	149	140
55.0	2334	1928	1605	910	433	265	170	128	108	105
57.5	2285	1866	1536	830	323	174	119	89	77	76
60.0	2147	1748	1407	704	225	129	91	66	55	54
62.5	1915	1538	1215	566	163	105	72	50	39	39
65.0	1612	1255	951	416	130	86	58	39	28	27
67.5	1215	929	623	255	105	70	45	31	21	19
70.0	799	611	369	150	79	53	36	25	17	15
72.5	470	349	225	97	53	38	27	21	14	9
75.0	335	238	154	70	40	28	23	15	7	4
77.5	237	164	106	52	30	23	18	9	4	2

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CANDELA TABULATION - (Cont.)

80.0	144	107	74	38	24	20	14	6	2	2
82.5	96	72	52	27	20	17	13	6	2	2
85.0	64	45	29	18	16	15	10	5	2	1
87.5	29	18	14	10	12	10	8	4	1	1
90.0	6	4	6	10	12	10	7	4	2	1
92.5	4	4	7	10	13	10	8	5	2	2
95.0	4	4	7	10	12	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

	175	180
0.0	788	788
2.5	775	774
5.0	738	741
7.5	732	723
10.0	737	723
12.5	729	718
15.0	621	619
17.5	472	471
20.0	440	444
22.5	441	449
25.0	475	489

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CANDELA TABULATION - (Cont.)

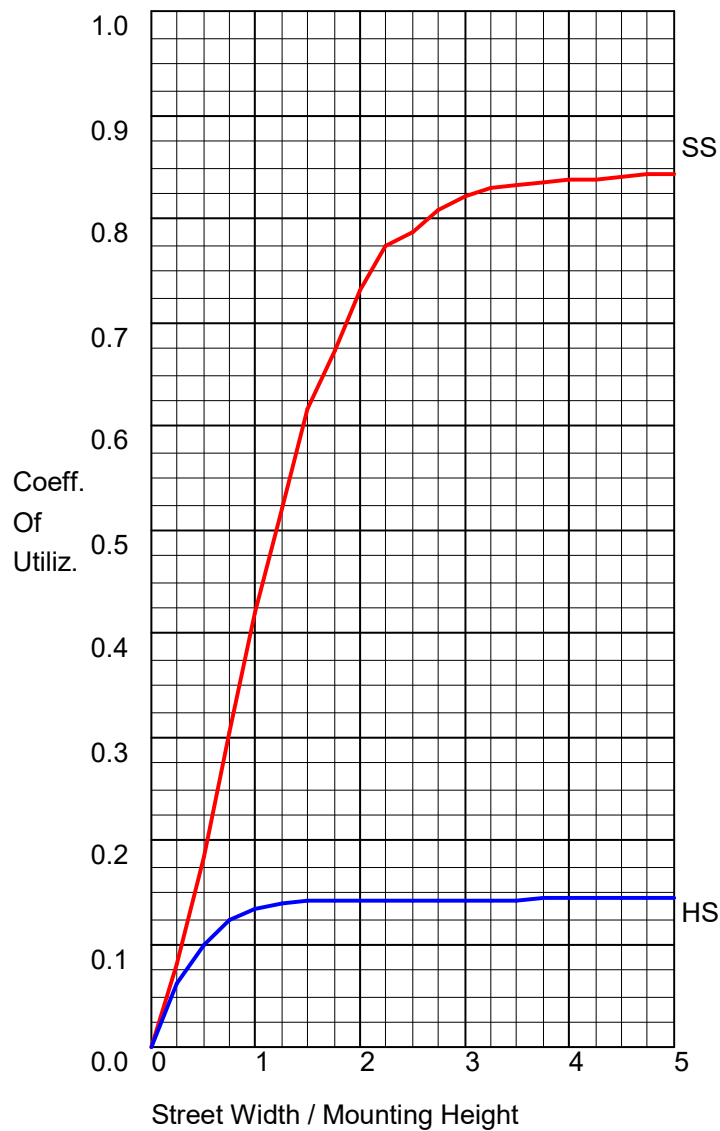
27.5	531	550
30.0	597	600
32.5	697	701
35.0	742	747
37.5	733	719
40.0	605	587
42.5	449	439
45.0	336	332
47.5	254	255
50.0	196	198
52.5	151	150
55.0	115	115
57.5	88	89
60.0	67	68
62.5	51	52
65.0	39	40
67.5	27	28
70.0	20	21
72.5	12	13
75.0	4	5
77.5	1	2
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	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

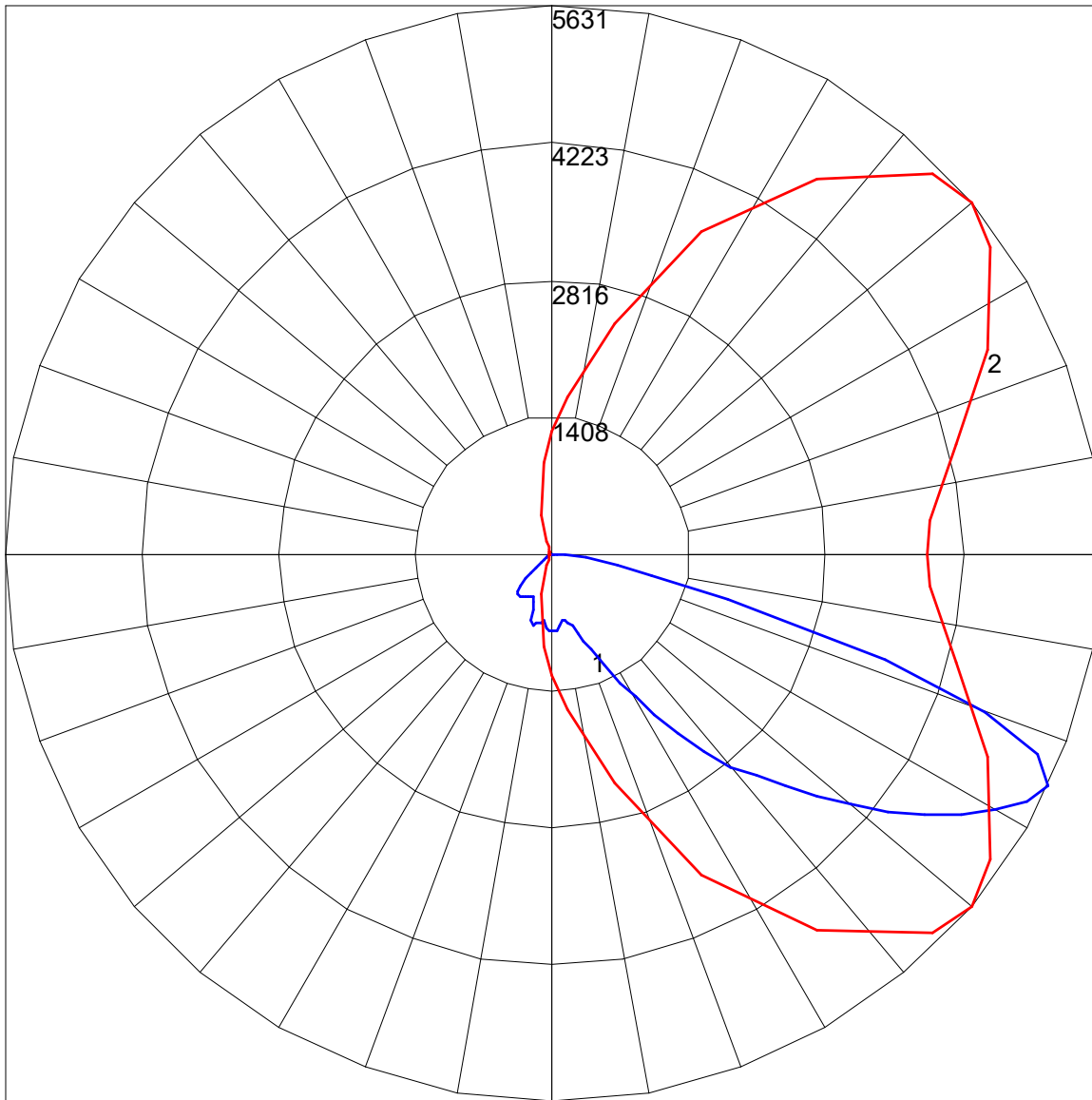
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

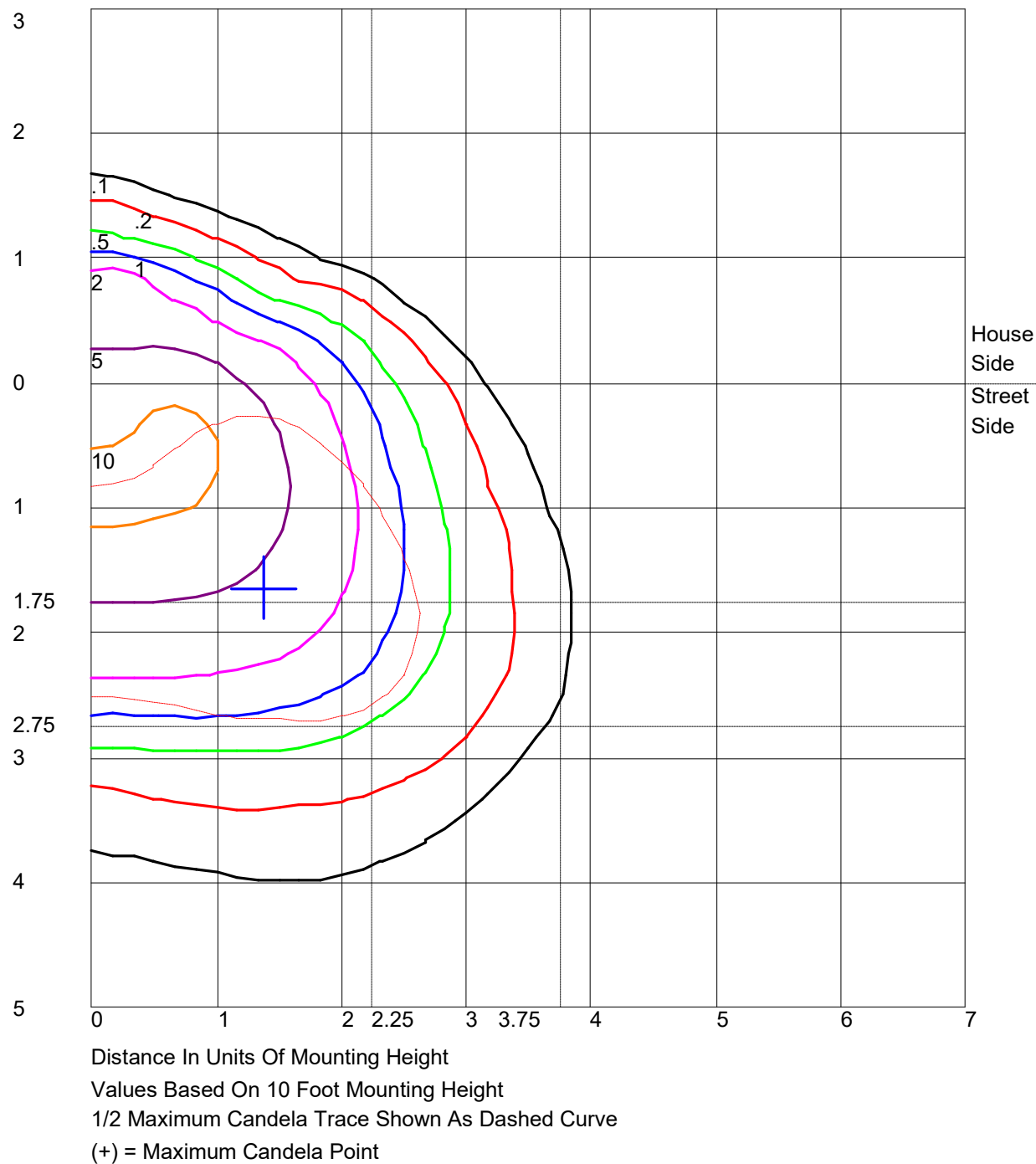
	Lumens	Percent Of Luminaire
Downward Street Side	6787.6	85.3
Downward House Side	1147.4	14.4
Downward Total	7935.0	99.7
Upward Street Side	10.2	0.1
Upward House Side	13.0	0.2
Upward Total	23.2	0.3
Total Flux	7958.2	100.0

POLAR GRAPH

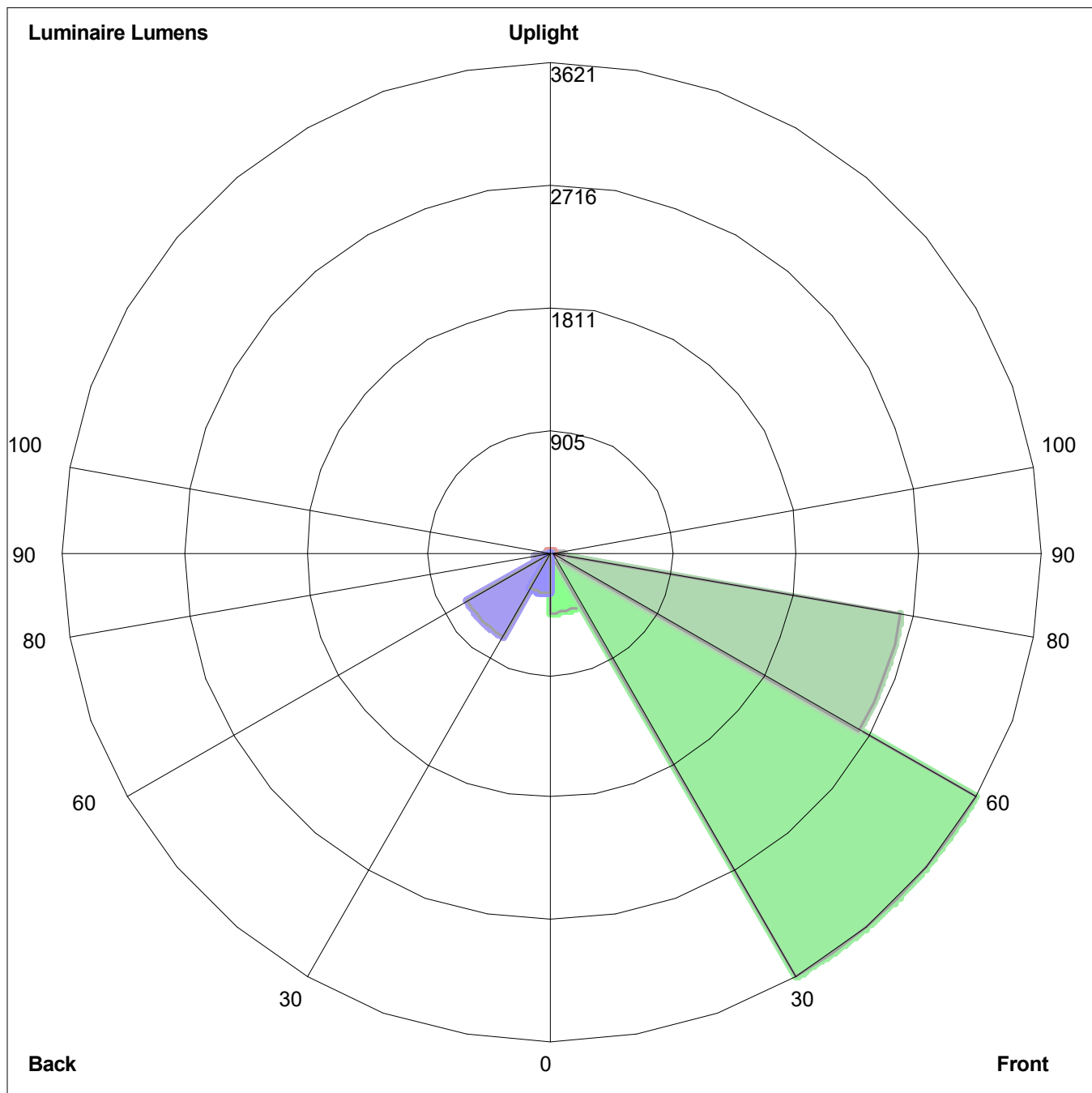


Maximum Candela = 5631 Located At Horizontal Angle = 40, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=445.3, Medium=3621.1, High=2625.4, Very High=95.8
Back: Low=302.7, Medium=713.3, High=125.0, Very High=6.4
Uplight: Low=5.7, High=17.6

BUG Rating : B1-U2-G2