



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-25L-30-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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-FT-LED-25L-30-IL
[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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17215
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	227.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12129
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	12129
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	49 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1525 (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)	962.7	N.A.	5.6
FM - Front-Medium (30-60)	7831.6	N.A.	45.5
FH - Front-High (60-80)	5681.9	N.A.	33.0
FVH - Front-Very High (80-90)	206.4	N.A.	1.2
BL - Back-Low (0-30)	655.0	N.A.	3.8
BM - Back-Medium (30-60)	1542.8	N.A.	9.0
BH - Back-High (60-80)	269.7	N.A.	1.6
BVH - Back-Very High (80-90)	13.7	N.A.	0.1
UL - Uplight-Low (90-100)	12.4	N.A.	0.1
UH - Uplight-High (100-180)	38.4	N.A.	0.2
Total	17214.6	N.A.	100.0
BUG Rating	B2-U2-G3		

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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	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707
2.5	1671	1686	1695	1687	1698	1695	1716	1716	1706	1699
5.0	1561	1560	1601	1635	1642	1617	1630	1588	1576	1558
7.5	1482	1512	1552	1520	1462	1486	1473	1559	1644	1645
10.0	1471	1489	1484	1451	1468	1498	1541	1582	1606	1648
12.5	1601	1565	1553	1497	1527	1547	1564	1602	1701	1732
15.0	1689	1654	1670	1679	1689	1663	1653	1709	1786	1838
17.5	1803	1772	1764	1802	1852	1834	1870	1845	1887	1984
20.0	1999	1998	2016	2019	2008	2026	2064	2068	2041	2157
22.5	2201	2239	2293	2376	2314	2292	2318	2329	2261	2395
25.0	2548	2534	2574	2657	2790	2771	2688	2709	2609	2610
27.5	3114	3041	3090	3071	3148	3222	3204	3127	3005	2893
30.0	3531	3589	3593	3647	3611	3673	3691	3670	3395	3201
32.5	4444	4343	4206	4186	4233	4255	4232	4224	3855	3567
35.0	4925	4977	4842	4885	4809	4887	4798	4786	4376	3908
37.5	5701	5674	5465	5499	5537	5542	5394	5372	4912	4384
40.0	6188	6171	6219	6167	6184	6161	6124	5914	5517	4775
42.5	6559	6574	6606	6688	6811	6731	6690	6569	6090	5126
45.0	6909	6994	7011	7127	7424	7339	7383	7102	6627	5502
47.5	7337	7437	7494	7637	7962	7931	8019	7680	7143	5940
50.0	7803	7889	7983	8226	8555	8620	8711	8384	7793	6369
52.5	8137	8226	8396	8710	9220	9509	9403	9112	8314	6648
55.0	8428	8503	8742	9180	9963	10203	10152	9794	8698	6851
57.5	8737	8816	9111	9671	10609	10809	10785	10305	8929	6854
60.0	8966	9046	9442	10185	11139	11431	11397	10626	8910	6613
62.5	9023	9098	9701	10699	11618	11908	11783	10619	8639	6136
65.0	8288	8439	9292	10702	11872	12129	11983	10267	7951	5329
67.5	6988	7080	8106	9779	11357	11689	11375	9494	6912	4333
70.0	3838	4176	5550	7920	9765	10293	9988	8131	5523	3056
72.5	1670	1813	2551	4395	6971	7771	7965	6166	3837	1914
75.0	1258	1337	1718	2403	3515	4027	4533	4022	2362	1269
77.5	1009	1075	1429	1890	2192	2236	2287	2254	1508	901
80.0	808	877	1196	1481	1525	1448	1354	1109	955	602
82.5	605	656	860	969	798	737	617	466	467	396
85.0	334	350	440	437	315	298	249	208	219	223
87.5	112	125	150	142	101	92	74	67	66	84
90.0	39	41	49	42	30	25	19	12	9	11
92.5	17	17	14	10	9	9	10	9	9	8
95.0	3	3	4	5	8	9	9	9	8	8
97.5	3	3	4	5	6	7	8	8	8	8
100.0	3	3	4	5	6	7	7	7	7	8
102.5	3	3	4	5	6	6	7	7	7	7
105.0	4	3	4	5	6	6	7	6	6	7
107.5	4	4	4	5	6	6	7	7	7	7
110.0	4	4	5	5	6	7	7	7	7	7
112.5	5	5	5	5	7	7	7	7	7	8
115.0	5	5	5	6	7	7	8	7	7	8
117.5	6	6	6	6	7	8	8	8	8	8
120.0	7	7	7	7	8	8	9	8	8	9
122.5	8	8	8	7	8	9	9	9	8	9
125.0	9	8	8	8	8	9	9	9	9	10
127.5	9	9	8	9	9	9	10	9	9	10
130.0	10	9	9	9	9	10	10	9	9	11

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CANDELA TABULATION - (Cont.)

132.5	10	10	10	9	10	10	10	10	10	11
135.0	9	9	8	8	9	9	9	9	9	10
137.5	5	5	5	5	7	7	7	7	7	8
140.0	1	1	3	4	5	5	5	5	6	6
142.5	1	1	3	4	5	5	5	5	5	6
145.0	1	1	2	4	5	5	5	5	5	5
147.5	1	1	2	4	5	5	5	5	5	5
150.0	0	1	2	4	5	5	5	5	5	5
152.5	1	1	3	4	5	5	5	5	5	5
155.0	1	1	3	4	5	5	5	5	5	5
157.5	1	1	3	4	5	5	5	5	5	5
160.0	1	1	3	4	5	5	5	5	5	5
162.5	1	1	3	4	5	5	5	5	5	5
165.0	1	1	3	4	5	5	5	5	5	5
167.5	1	1	3	4	5	5	5	5	5	5
170.0	1	1	3	4	5	5	5	5	5	5
172.5	1	1	3	4	4	5	5	5	5	5
175.0	1	1	3	4	4	5	5	5	5	5
177.5	1	1	2	3	4	4	5	5	5	5
180.0	3	3	3	3	3	3	3	3	3	3

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	1707	1707	1707	1707	1707	1707	1707	1707	1707	1707
2.5	1712	1717	1701	1699	1699	1708	1719	1724	1696	1666
5.0	1590	1596	1585	1611	1626	1645	1664	1670	1657	1605
7.5	1629	1661	1659	1709	1655	1574	1508	1541	1543	1593
10.0	1664	1640	1655	1673	1605	1590	1552	1542	1475	1543
12.5	1719	1746	1783	1768	1674	1568	1565	1617	1565	1572
15.0	1891	1872	1877	1797	1676	1706	1680	1576	1459	1339
17.5	1976	1992	1974	1929	1769	1768	1669	1413	1174	1035
20.0	2211	2170	2167	1960	1841	1795	1461	1174	995	937
22.5	2408	2381	2375	2164	1952	1701	1267	1037	954	929
25.0	2662	2624	2577	2307	2052	1560	1129	1002	967	969
27.5	2889	2838	2759	2523	2113	1405	1104	1015	1040	1073
30.0	3085	3081	2932	2620	2030	1379	1126	1061	1134	1187
32.5	3364	3226	3052	2657	1953	1380	1167	1117	1230	1373
35.0	3585	3501	3212	2678	1830	1403	1196	1159	1345	1533
37.5	3912	3745	3435	2620	1753	1410	1199	1200	1419	1608
40.0	4124	3845	3498	2554	1702	1399	1184	1193	1429	1461
42.5	4312	3946	3528	2461	1629	1370	1134	1109	1257	1103
45.0	4555	4060	3591	2351	1549	1305	1040	928	917	781
47.5	4756	4170	3645	2242	1457	1192	887	719	631	546
50.0	4919	4205	3626	2154	1330	1027	719	545	441	400
52.5	5030	4228	3568	2083	1160	797	535	395	319	300
55.0	5074	4201	3465	1981	937	561	365	274	231	224
57.5	4955	4074	3310	1808	700	374	254	194	166	166
60.0	4631	3807	3049	1528	486	280	195	144	120	118
62.5	4155	3353	2634	1225	350	227	154	108	83	83
65.0	3537	2729	2062	905	280	185	124	82	61	58
67.5	2643	2021	1344	560	224	150	96	65	45	41
70.0	1732	1321	790	324	170	114	75	54	35	31
72.5	1012	755	483	211	114	81	59	43	28	19
75.0	720	516	329	149	84	59	47	31	15	8
77.5	509	356	224	111	64	49	37	19	7	5

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CANDELA TABULATION - (Cont.)

80.0	312	225	159	81	52	42	29	14	5	4
82.5	209	156	111	57	42	35	25	12	4	3
85.0	139	95	64	37	34	30	22	12	3	3
87.5	63	39	28	24	25	23	16	10	3	3
90.0	13	8	15	21	25	22	16	10	3	3
92.5	10	8	15	23	25	24	18	11	5	4
95.0	10	7	15	22	25	23	17	12	5	5
97.5	9	6	13	18	20	19	15	12	6	5
100.0	8	7	10	14	16	16	14	11	7	5
102.5	8	7	9	11	13	14	12	10	7	5
105.0	7	7	9	10	11	12	11	10	7	6
107.5	7	7	9	10	11	11	11	10	8	6
110.0	7	8	9	10	11	11	10	9	7	6
112.5	8	8	9	10	11	11	10	10	8	7
115.0	8	9	10	10	11	11	11	10	9	7
117.5	9	9	10	11	12	12	12	11	10	8
120.0	9	10	10	11	12	13	13	12	11	9
122.5	10	11	11	12	13	14	13	13	11	10
125.0	10	11	11	12	13	13	13	13	12	10
127.5	11	11	12	12	13	13	13	13	12	11
130.0	11	12	11	12	13	13	13	13	12	11
132.5	11	12	12	12	12	13	13	12	12	10
135.0	11	11	11	12	11	11	11	10	9	9
137.5	9	9	9	9	10	9	9	7	6	5
140.0	6	7	7	7	7	7	6	5	5	3
142.5	6	6	6	7	7	6	5	5	4	2
145.0	6	6	6	6	6	6	5	5	3	2
147.5	6	6	6	6	6	6	5	5	3	2
150.0	5	6	6	6	6	5	5	4	3	1
152.5	5	6	6	6	6	5	5	4	3	1
155.0	5	5	5	5	5	5	5	4	2	1
157.5	5	5	5	5	5	5	5	3	2	1
160.0	5	5	5	5	5	5	4	3	2	0
162.5	5	5	5	5	5	5	4	2	1	0
165.0	5	5	5	5	5	5	3	2	1	0
167.5	5	5	5	5	5	4	3	2	1	0
170.0	5	5	5	5	5	4	3	2	1	0
172.5	5	5	5	5	4	4	3	2	1	0
175.0	5	5	5	5	4	4	3	2	0	0
177.5	5	5	5	4	4	3	2	2	0	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	1707	1707
2.5	1671	1684
5.0	1590	1607
7.5	1578	1564
10.0	1589	1552
12.5	1569	1546
15.0	1342	1339
17.5	1020	1016
20.0	950	952
22.5	951	968
25.0	1025	1057

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

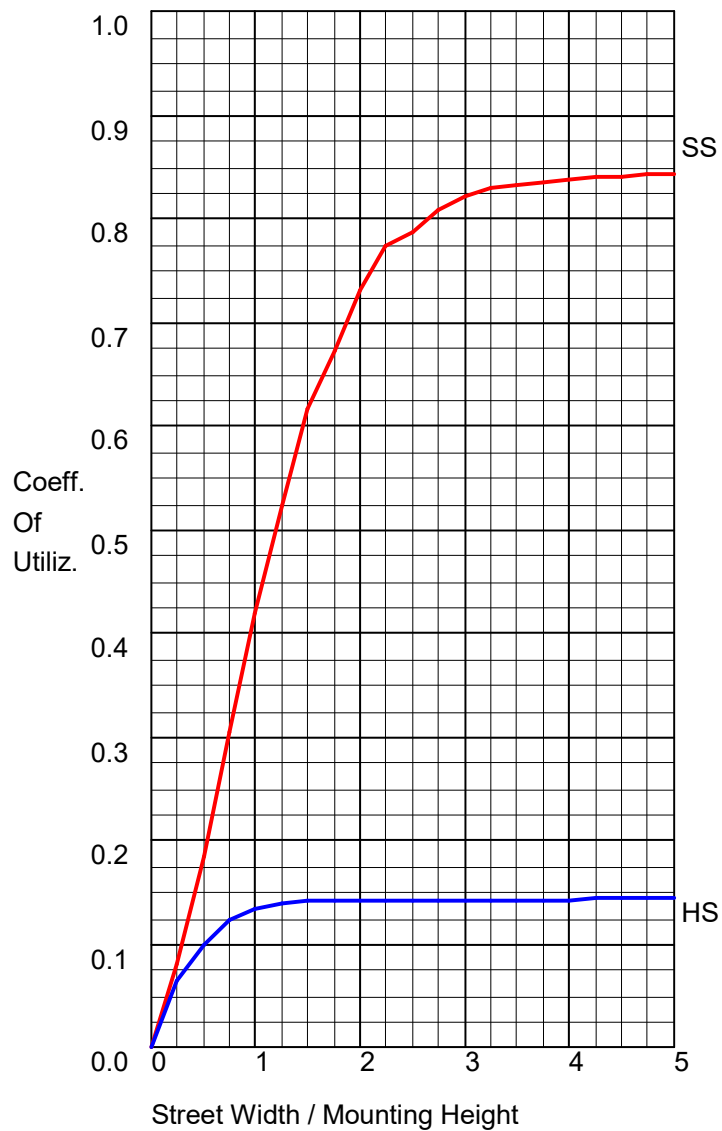
27.5	1134	1189
30.0	1284	1297
32.5	1502	1512
35.0	1600	1618
37.5	1578	1560
40.0	1301	1275
42.5	967	950
45.0	724	719
47.5	549	552
50.0	423	416
52.5	325	322
55.0	247	249
57.5	190	193
60.0	144	147
62.5	109	112
65.0	81	84
67.5	57	61
70.0	42	45
72.5	23	24
75.0	8	10
77.5	2	3
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	1	0
95.0	2	2
97.5	3	3
100.0	4	4
102.5	5	4
105.0	5	4
107.5	5	5
110.0	5	5
112.5	6	5
115.0	6	6
117.5	7	7
120.0	8	7
122.5	8	8
125.0	9	8
127.5	9	9
130.0	9	9
132.5	9	9
135.0	7	7
137.5	5	4
140.0	2	2
142.5	1	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	3	3

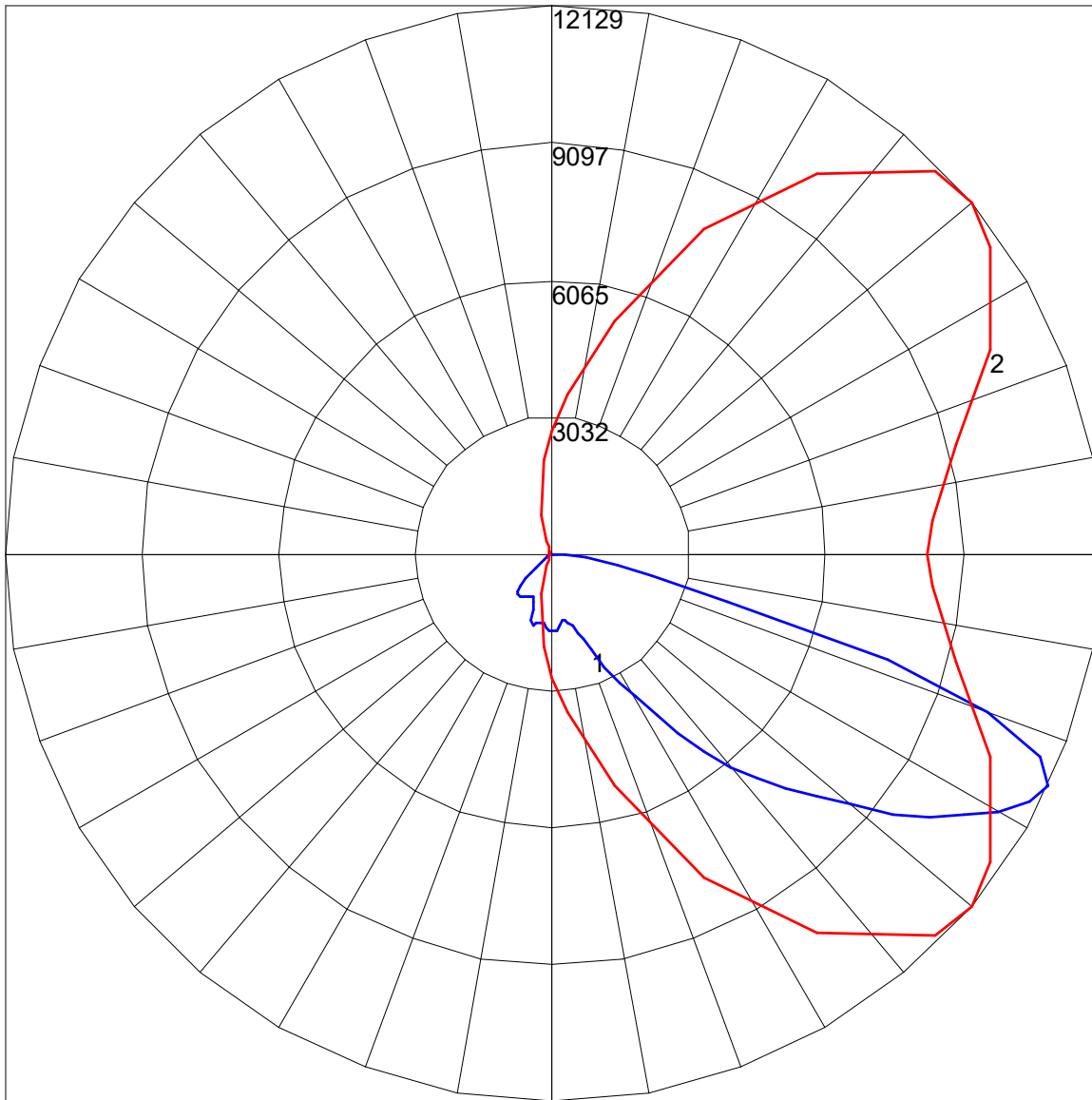
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

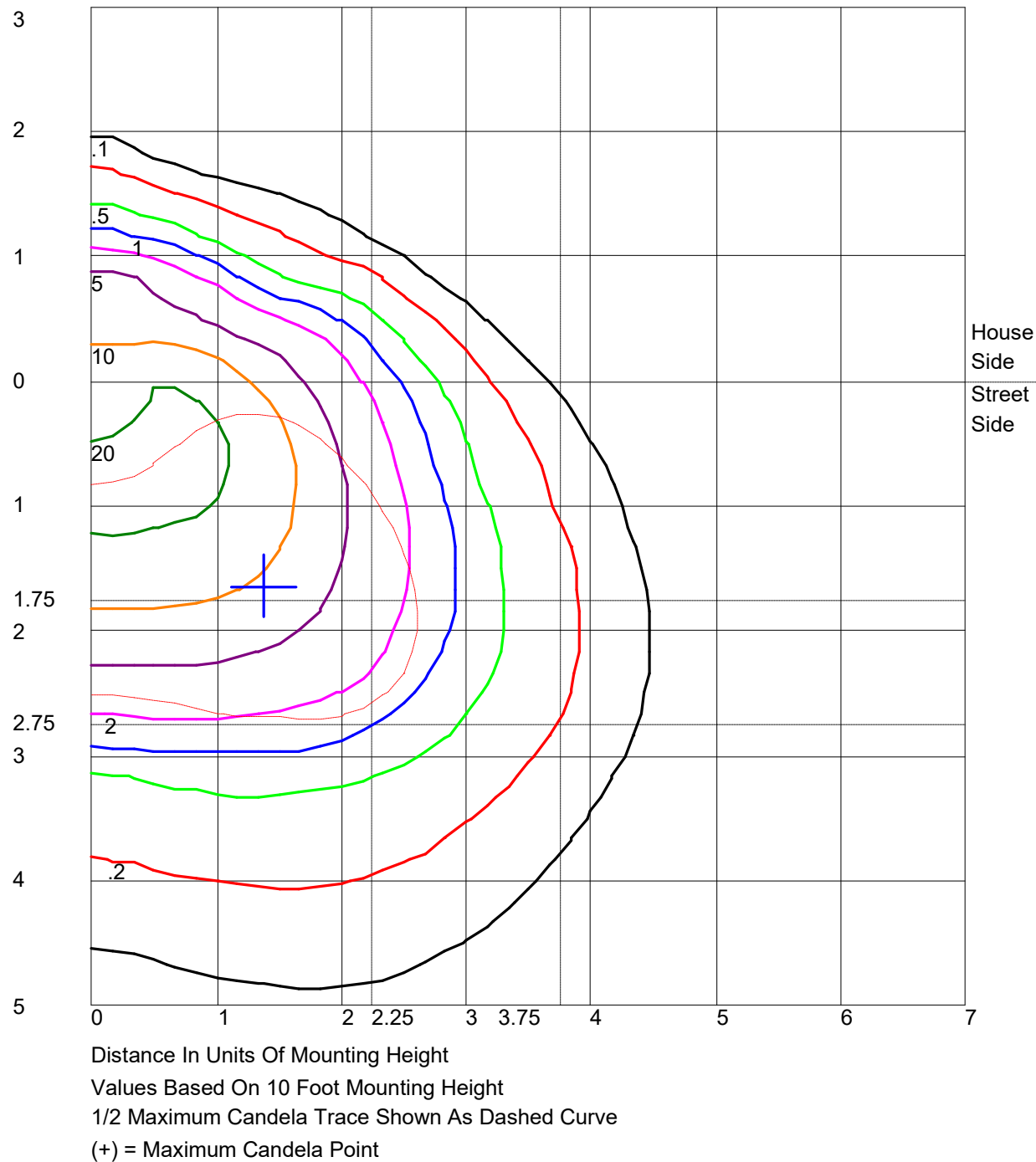
	Lumens	Percent Of Luminaire
Downward Street Side	14682.7	85.3
Downward House Side	2481.2	14.4
Downward Total	17163.9	99.7
Upward Street Side	22.3	0.1
Upward House Side	28.5	0.2
Upward Total	50.8	0.3
Total Flux	17214.7	100.0

POLAR GRAPH

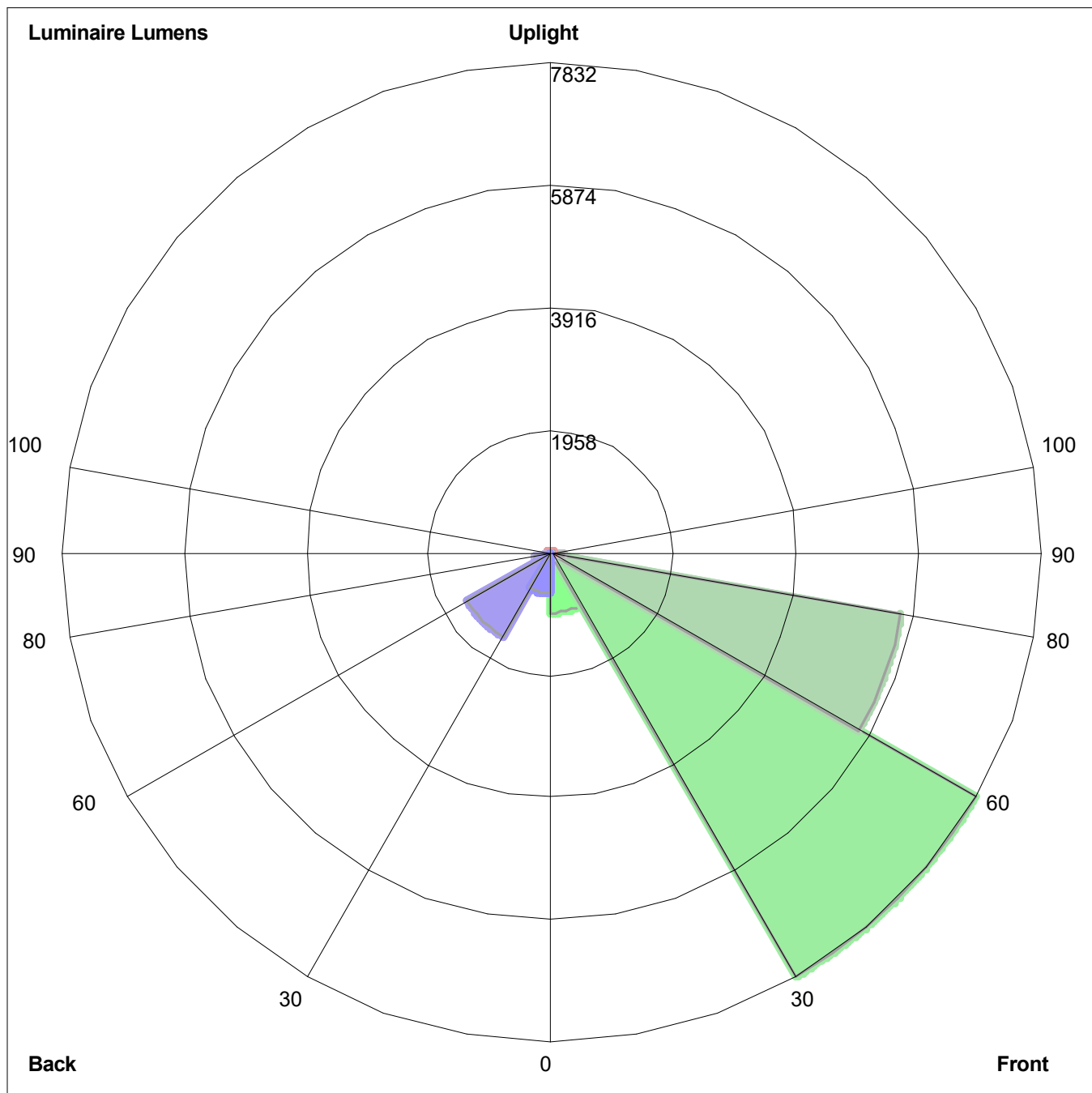


Maximum Candela = 12129 Located At Horizontal Angle = 40, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=962.7, Medium=7831.6, High=5681.9, Very High=206.4
Back: Low=655.0, Medium=1542.8, High=269.7, Very High=13.7
Uplight: Low=12.4, High=38.4

BUG Rating : B2-U2-G3