



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-25L-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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-FT-LED-25L-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

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18944
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	227.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13402
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	13402
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	54 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1672 (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)	1059.8	N.A.	5.6
FM - Front-Medium (30-60)	8618.3	N.A.	45.5
FH - Front-High (60-80)	6248.4	N.A.	33.0
FVH - Front-Very High (80-90)	227.9	N.A.	1.2
BL - Back-Low (0-30)	720.4	N.A.	3.8
BM - Back-Medium (30-60)	1697.9	N.A.	9.0
BH - Back-High (60-80)	297.4	N.A.	1.6
BVH - Back-Very High (80-90)	15.3	N.A.	0.1
UL - Uplight-Low (90-100)	14.0	N.A.	0.1
UH - Uplight-High (100-180)	44.1	N.A.	0.2
Total	18943.5	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	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875
2.5	1830	1854	1854	1858	1857	1865	1875	1887	1881	1866
5.0	1724	1719	1760	1795	1793	1776	1789	1749	1728	1725
7.5	1634	1664	1687	1663	1613	1636	1623	1721	1805	1808
10.0	1628	1640	1633	1604	1617	1652	1696	1742	1765	1807
12.5	1770	1727	1718	1655	1674	1705	1716	1759	1858	1907
15.0	1863	1823	1843	1850	1858	1832	1820	1872	1960	2023
17.5	1983	1957	1936	1981	2039	2022	2055	2026	2078	2189
20.0	2187	2192	2215	2214	2211	2252	2273	2268	2250	2388
22.5	2420	2460	2522	2607	2554	2545	2554	2573	2493	2637
25.0	2788	2801	2829	2908	3078	3033	2974	2993	2871	2870
27.5	3440	3353	3405	3370	3473	3555	3513	3450	3308	3180
30.0	3900	3949	3958	4000	3985	4058	4074	4054	3743	3514
32.5	4935	4728	4624	4597	4673	4670	4680	4662	4230	3925
35.0	5434	5481	5327	5367	5304	5370	5284	5262	4848	4295
37.5	6256	6258	6006	6053	6102	6104	5945	5941	5409	4808
40.0	6784	6794	6824	6805	6812	6800	6713	6520	6061	5254
42.5	7196	7208	7304	7377	7527	7403	7369	7255	6698	5631
45.0	7621	7678	7730	7872	8205	8077	8105	7818	7263	6079
47.5	8123	8178	8226	8398	8772	8762	8792	8500	7880	6554
50.0	8597	8646	8749	9023	9417	9532	9605	9198	8549	6982
52.5	8996	9063	9226	9611	10155	10386	10374	10008	9153	7305
55.0	9336	9407	9621	10129	10923	11139	11096	10794	9558	7527
57.5	9644	9732	10070	10662	11653	11845	11902	11360	9767	7505
60.0	9898	9992	10431	11251	12267	12544	12527	11679	9774	7234
62.5	9954	10049	10703	11811	12824	13123	12963	11671	9440	6695
65.0	9185	9279	10234	11750	13075	13402	13121	11240	8700	5819
67.5	7748	7769	8962	10746	12444	12863	12533	10421	7551	4741
70.0	4584	4585	6156	8713	10751	11293	10928	8949	6067	3347
72.5	1841	1999	2829	4861	7698	8537	8689	6875	4184	2123
75.0	1386	1476	1896	2651	3862	4423	5137	4381	2589	1393
77.5	1119	1189	1563	2069	2382	2457	2484	2444	1651	996
80.0	899	969	1309	1642	1672	1593	1473	1197	1044	665
82.5	672	728	954	1071	919	813	674	507	515	437
85.0	372	399	485	483	352	330	274	227	242	246
87.5	136	139	164	158	112	102	81	74	73	93
90.0	43	46	54	47	33	28	21	15	10	12
92.5	19	20	15	11	10	11	11	11	10	10
95.0	4	3	4	6	9	10	10	10	9	9
97.5	4	4	5	6	8	8	9	10	9	9
100.0	3	3	4	6	7	8	8	9	8	9
102.5	4	4	5	6	7	8	8	8	8	9
105.0	4	4	4	6	7	7	8	8	8	8
107.5	4	4	5	6	7	8	8	8	8	8
110.0	5	5	5	6	7	8	8	8	8	9
112.5	5	5	5	7	8	8	9	8	8	9
115.0	6	6	6	7	8	9	9	9	9	9
117.5	7	7	7	7	9	9	9	9	9	10
120.0	8	8	8	8	9	9	10	10	9	10
122.5	9	9	9	9	9	10	10	10	10	11
125.0	10	10	10	10	10	10	11	10	10	11
127.5	10	10	10	10	10	10	11	11	10	12
130.0	11	11	11	11	11	11	11	11	11	12

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CANDELA TABULATION - (Cont.)

132.5	11	11	11	11	11	11	11	11	11	12
135.0	10	10	10	9	10	10	11	10	10	11
137.5	6	5	5	7	8	8	9	9	9	9
140.0	1	1	3	4	6	6	6	7	7	7
142.5	1	1	3	4	5	6	6	6	6	7
145.0	1	1	3	4	5	6	6	6	6	7
147.5	1	1	3	4	5	6	6	6	6	6
150.0	1	1	3	4	5	6	6	6	6	6
152.5	1	1	3	4	5	6	6	6	6	6
155.0	1	1	3	4	5	6	6	6	6	6
157.5	1	1	3	4	5	6	6	6	6	6
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	5	5	5	5	5	5
175.0	1	1	3	4	5	5	5	5	5	5
177.5	1	1	3	4	4	5	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	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875
2.5	1878	1889	1871	1867	1875	1877	1887	1895	1864	1827
5.0	1739	1754	1733	1777	1787	1805	1823	1835	1819	1777
7.5	1791	1825	1833	1878	1820	1726	1652	1696	1679	1740
10.0	1833	1784	1813	1836	1767	1750	1699	1694	1630	1698
12.5	1889	1929	1969	1945	1836	1720	1721	1779	1726	1722
15.0	2088	2060	2069	1974	1838	1865	1851	1732	1608	1452
17.5	2179	2190	2161	2131	1949	1932	1836	1552	1296	1146
20.0	2439	2391	2378	2145	2024	1969	1608	1288	1096	1033
22.5	2656	2621	2597	2371	2150	1867	1388	1141	1053	1028
25.0	2934	2892	2836	2535	2266	1718	1241	1103	1061	1066
27.5	3179	3132	3032	2766	2329	1547	1215	1121	1141	1187
30.0	3395	3400	3230	2865	2241	1520	1242	1174	1251	1310
32.5	3705	3561	3346	2914	2144	1522	1281	1237	1354	1529
35.0	3958	3871	3526	2946	2010	1545	1318	1283	1477	1695
37.5	4315	4107	3776	2877	1929	1549	1320	1322	1561	1775
40.0	4552	4235	3854	2803	1873	1540	1300	1310	1562	1611
42.5	4771	4341	3877	2707	1790	1509	1242	1221	1376	1219
45.0	5017	4488	3975	2589	1701	1434	1143	1024	1017	854
47.5	5244	4590	4025	2463	1603	1304	976	795	698	604
50.0	5423	4615	3969	2367	1471	1123	792	602	488	441
52.5	5525	4625	3912	2284	1276	893	588	437	353	333
55.0	5554	4589	3820	2165	1031	631	403	304	256	249
57.5	5439	4440	3655	1975	771	413	284	213	185	182
60.0	5111	4161	3349	1674	536	307	216	157	131	130
62.5	4558	3661	2892	1347	388	250	172	120	92	93
65.0	3838	2987	2263	988	310	204	137	91	67	66
67.5	2894	2209	1482	608	249	166	107	74	51	46
70.0	1900	1455	876	356	188	127	84	60	41	35
72.5	1119	829	535	232	127	90	66	49	32	23
75.0	797	566	366	166	94	67	54	35	18	11
77.5	562	390	251	124	72	56	43	22	9	6

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CANDELA TABULATION - (Cont.)

80.0	343	254	177	90	58	47	33	16	5	4
82.5	230	172	124	64	47	39	29	14	4	4
85.0	153	106	71	42	37	34	25	13	4	3
87.5	70	43	32	26	28	25	19	11	3	3
90.0	14	10	16	24	27	25	18	11	4	3
92.5	11	9	18	25	29	26	20	13	5	4
95.0	11	9	17	24	27	25	20	14	6	5
97.5	10	8	14	20	23	21	18	13	8	6
100.0	10	8	11	16	18	18	15	12	8	6
102.5	9	8	10	12	15	15	14	12	9	7
105.0	9	8	10	11	13	14	13	11	9	7
107.5	9	9	10	11	12	13	12	11	9	8
110.0	9	9	10	11	12	12	12	11	9	8
112.5	9	9	10	11	12	12	12	11	10	8
115.0	9	10	11	12	13	13	13	12	11	9
117.5	10	11	11	12	13	13	13	13	11	10
120.0	10	11	12	12	14	14	14	13	12	10
122.5	11	12	12	13	14	15	15	14	13	11
125.0	12	12	13	14	14	15	15	15	14	12
127.5	12	13	13	13	14	14	15	15	14	12
130.0	13	13	13	13	14	15	15	14	14	12
132.5	13	13	13	13	14	14	14	14	13	12
135.0	12	12	13	13	13	13	13	12	11	10
137.5	10	10	10	11	11	11	10	9	7	6
140.0	8	8	8	9	9	8	8	7	5	4
142.5	7	7	8	8	8	7	7	6	4	3
145.0	7	7	7	8	8	7	6	5	4	2
147.5	7	7	7	7	7	7	6	5	3	2
150.0	7	7	7	7	7	7	6	5	3	2
152.5	7	7	7	7	7	6	6	4	3	1
155.0	6	7	7	7	7	6	5	4	3	1
157.5	6	6	7	7	6	6	5	4	2	1
160.0	6	6	6	6	6	5	4	3	2	1
162.5	5	5	6	6	5	5	4	3	1	0
165.0	5	5	5	5	5	5	4	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	5	4	3	2	1	0
175.0	5	5	5	5	4	4	3	2	1	0
177.5	5	5	5	4	4	4	3	2	1	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	175	180
0.0	1875	1875
2.5	1843	1841
5.0	1757	1764
7.5	1742	1722
10.0	1753	1721
12.5	1733	1710
15.0	1477	1473
17.5	1123	1121
20.0	1046	1056
22.5	1048	1068
25.0	1130	1164

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

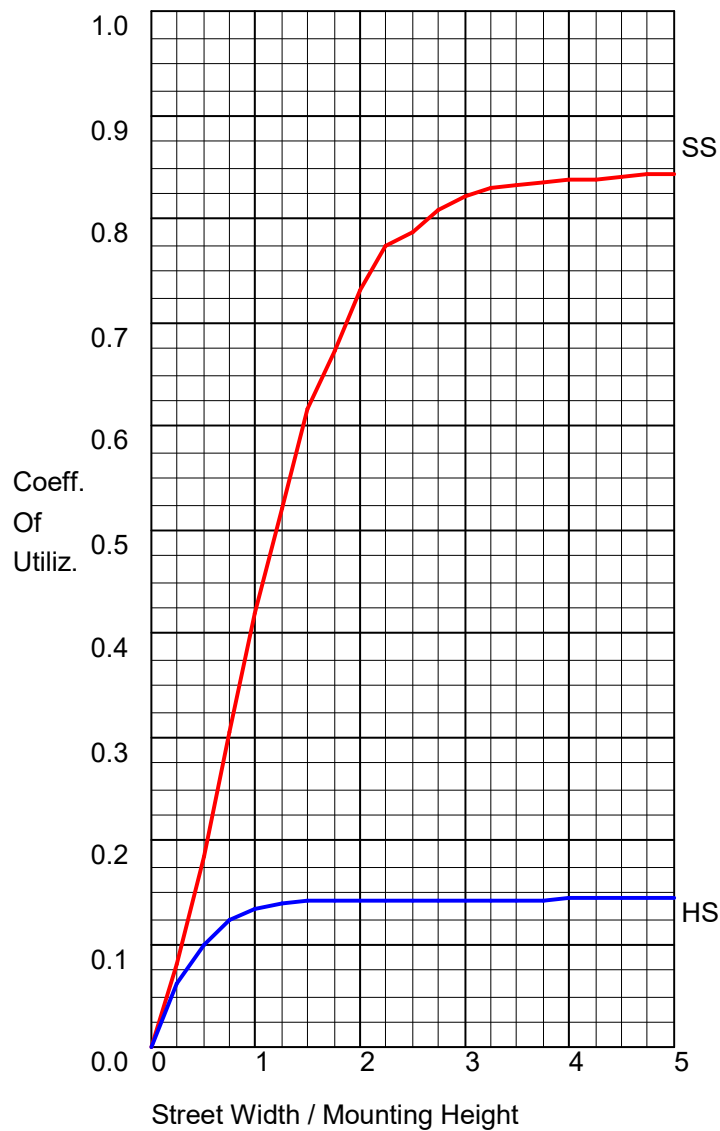
27.5	1263	1307
30.0	1421	1428
32.5	1660	1669
35.0	1767	1780
37.5	1743	1711
40.0	1439	1399
42.5	1068	1044
45.0	801	791
47.5	605	608
50.0	467	470
52.5	358	356
55.0	273	275
57.5	210	212
60.0	159	163
62.5	122	125
65.0	91	94
67.5	66	68
70.0	47	50
72.5	27	29
75.0	11	12
77.5	3	4
80.0	1	1
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	1	0
95.0	3	2
97.5	4	4
100.0	4	4
102.5	5	5
105.0	5	5
107.5	6	6
110.0	6	7
112.5	7	7
115.0	8	8
117.5	8	8
120.0	9	9
122.5	10	9
125.0	11	10
127.5	11	10
130.0	11	10
132.5	10	10
135.0	8	8
137.5	5	5
140.0	2	2
142.5	1	1
145.0	1	0
147.5	1	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	3	3

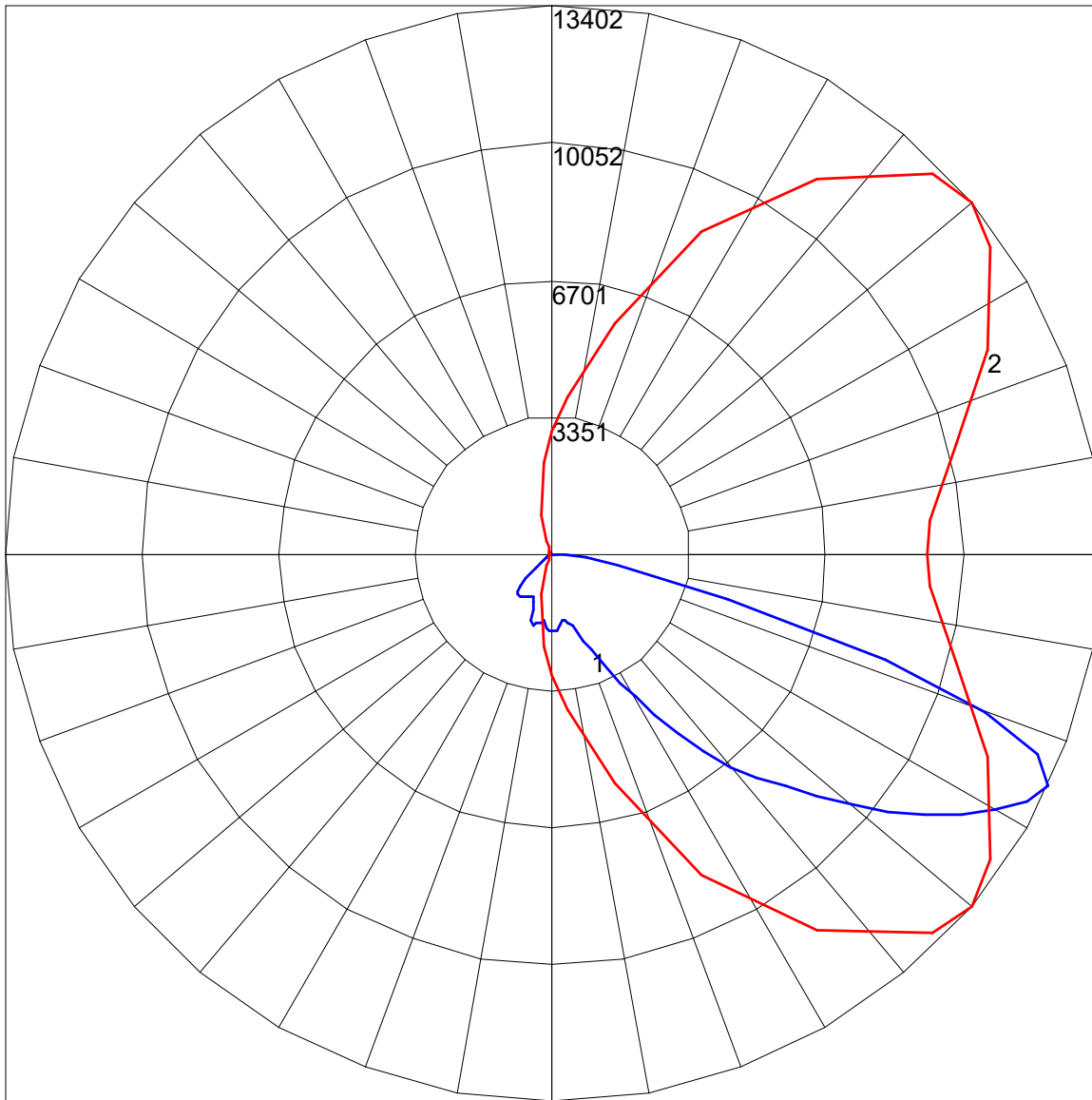
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

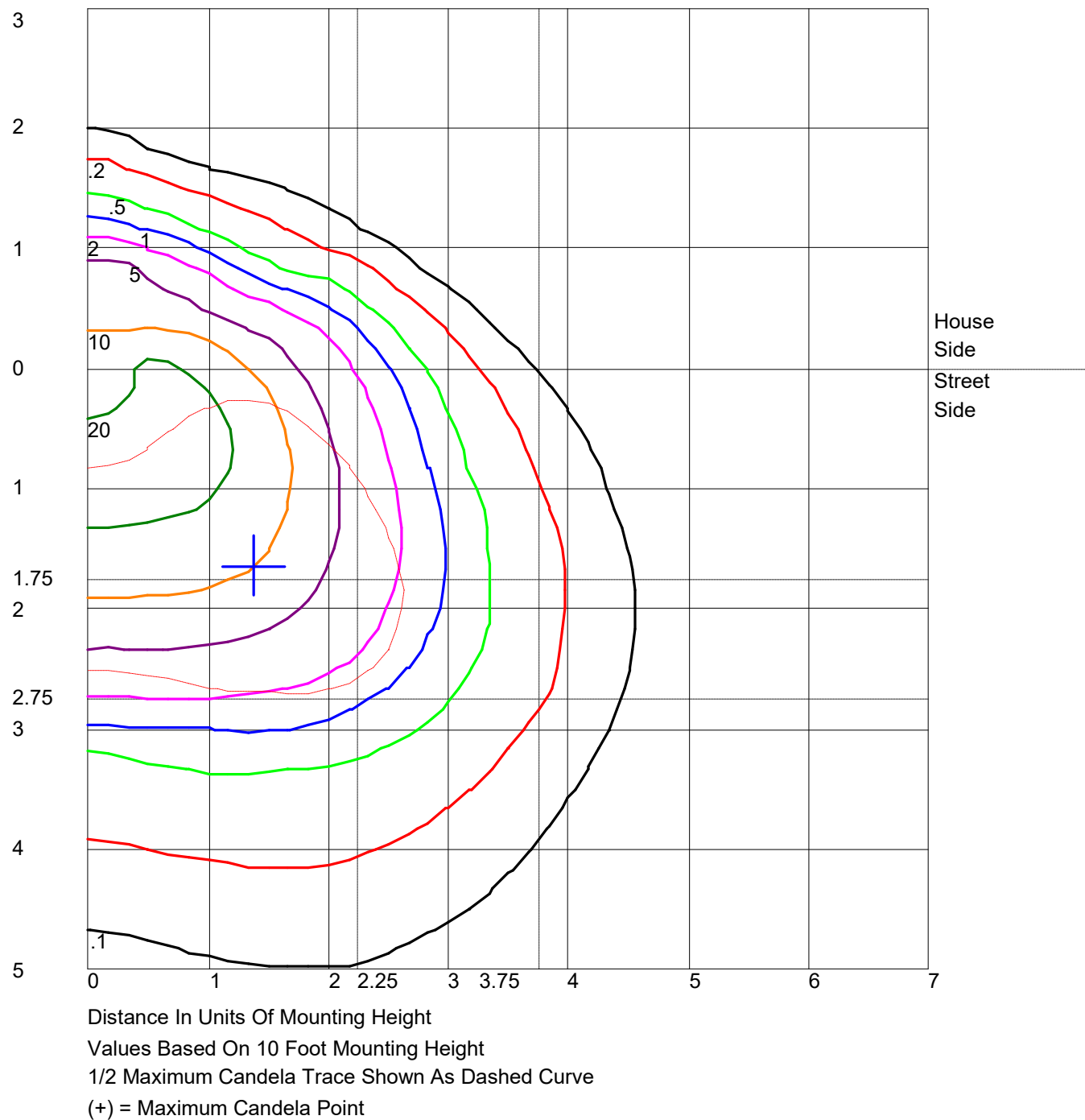
	Lumens	Percent Of Luminaire
Downward Street Side	16154.5	85.3
Downward House Side	2730.9	14.4
Downward Total	18885.4	99.7
Upward Street Side	25.7	0.1
Upward House Side	32.5	0.2
Upward Total	58.2	0.3
Total Flux	18943.6	100.0

POLAR GRAPH

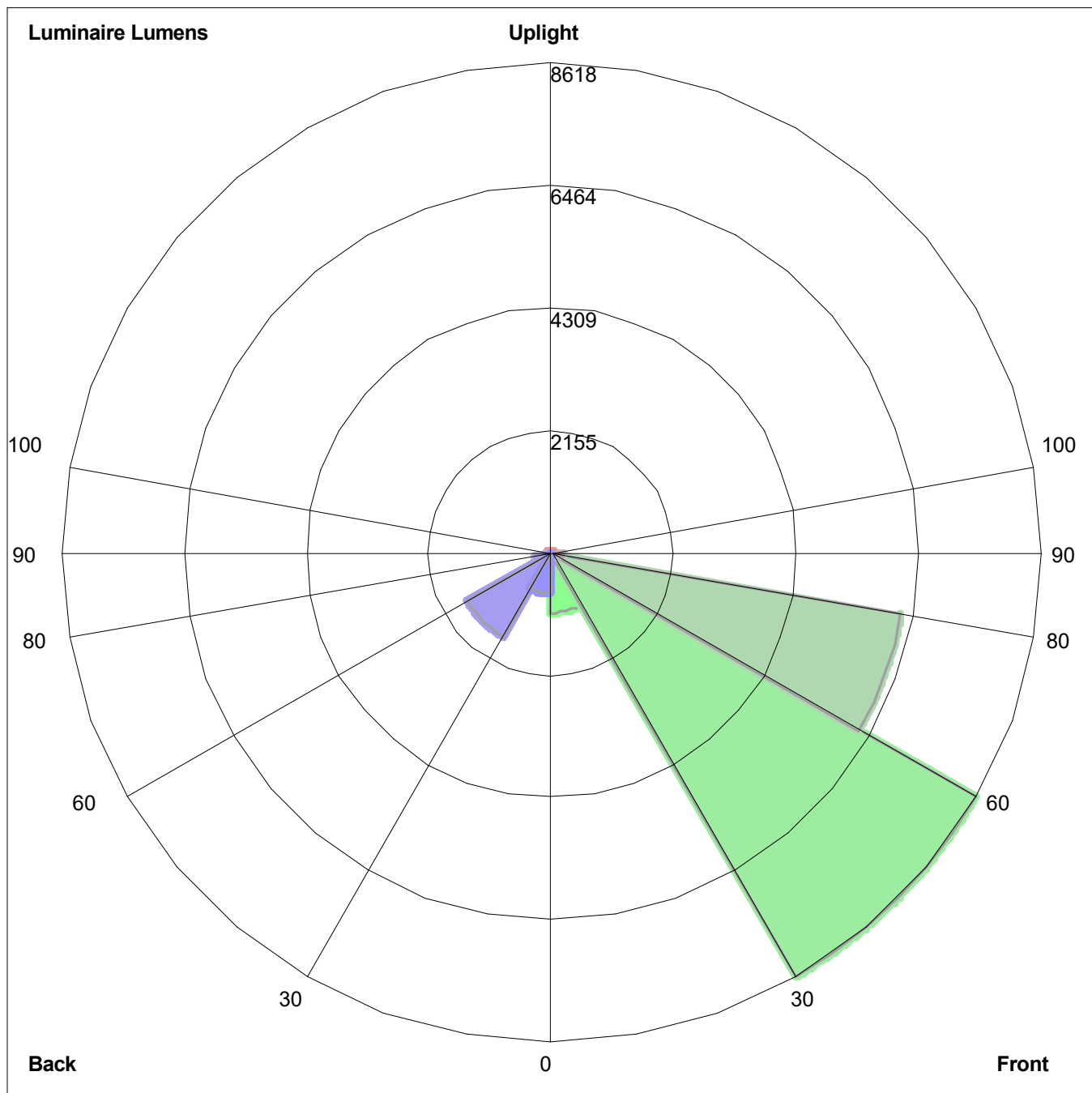


Maximum Candela = 13402 Located At Horizontal Angle = 40, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1059.8, Medium=8618.3, High=6248.4, Very High=227.9
Back: Low=720.4, Medium=1697.9, High=297.4, Very High=15.3
Uplight: Low=14.0, High=44.1

BUG Rating : B2-U2-G3