



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-25L-30-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-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	17223
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	12185
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	12185
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	1520 (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)	963.6	N.A.	5.6
FM - Front-Medium (30-60)	7835.8	N.A.	45.5
FH - Front-High (60-80)	5681.1	N.A.	33.0
FVH - Front-Very High (80-90)	207.2	N.A.	1.2
BL - Back-Low (0-30)	654.9	N.A.	3.8
BM - Back-Medium (30-60)	1543.6	N.A.	9.0
BH - Back-High (60-80)	270.4	N.A.	1.6
BVH - Back-Very High (80-90)	14.0	N.A.	0.1
UL - Uplight-Low (90-100)	12.8	N.A.	0.1
UH - Uplight-High (100-180)	40.0	N.A.	0.2
Total	17223.4	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	1705	1705	1705	1705	1705	1705	1705	1705	1705	1705
2.5	1664	1686	1686	1689	1688	1696	1705	1716	1710	1697
5.0	1567	1563	1600	1632	1630	1615	1627	1590	1571	1568
7.5	1486	1513	1534	1512	1467	1487	1476	1565	1641	1644
10.0	1480	1491	1485	1458	1470	1502	1542	1584	1605	1643
12.5	1609	1570	1562	1505	1522	1550	1560	1599	1689	1734
15.0	1694	1657	1676	1682	1689	1666	1655	1702	1782	1839
17.5	1803	1779	1760	1801	1854	1838	1868	1842	1889	1990
20.0	1988	1993	2014	2013	2010	2048	2067	2062	2046	2171
22.5	2200	2237	2293	2370	2322	2314	2322	2339	2267	2398
25.0	2535	2547	2572	2644	2799	2758	2704	2721	2610	2609
27.5	3128	3049	3096	3064	3158	3232	3194	3137	3008	2891
30.0	3546	3590	3599	3637	3623	3690	3704	3686	3403	3195
32.5	4487	4299	4204	4180	4249	4246	4255	4239	3846	3569
35.0	4941	4983	4843	4880	4822	4882	4804	4784	4408	3905
37.5	5688	5690	5461	5503	5548	5550	5405	5402	4918	4371
40.0	6168	6177	6204	6187	6193	6183	6103	5928	5511	4777
42.5	6543	6554	6641	6707	6844	6731	6700	6596	6090	5120
45.0	6929	6981	7028	7157	7460	7344	7369	7108	6604	5527
47.5	7385	7435	7479	7635	7976	7966	7994	7728	7164	5959
50.0	7816	7861	7955	8204	8562	8666	8733	8363	7773	6348
52.5	8179	8240	8388	8738	9233	9443	9432	9099	8322	6642
55.0	8488	8553	8747	9209	9931	10128	10088	9814	8690	6844
57.5	8768	8848	9156	9694	10595	10769	10821	10329	8880	6824
60.0	8999	9085	9484	10229	11153	11405	11390	10619	8887	6577
62.5	9050	9137	9731	10739	11660	11931	11786	10611	8583	6087
65.0	8351	8436	9305	10683	11888	12185	11930	10219	7910	5291
67.5	7044	7064	8148	9770	11314	11695	11395	9475	6865	4311
70.0	4168	4169	5597	7922	9775	10268	9936	8136	5516	3043
72.5	1674	1817	2572	4420	6999	7762	7900	6251	3804	1930
75.0	1260	1342	1724	2410	3511	4021	4671	3983	2354	1267
77.5	1017	1081	1421	1881	2166	2234	2258	2222	1501	906
80.0	817	881	1190	1493	1520	1448	1339	1088	949	605
82.5	611	662	867	974	836	739	613	461	468	397
85.0	338	363	441	439	320	300	249	206	220	224
87.5	124	126	149	144	102	93	74	67	66	85
90.0	39	42	49	43	30	25	19	14	9	11
92.5	17	18	14	10	9	10	10	10	9	9
95.0	4	3	4	5	8	9	9	9	8	8
97.5	4	4	5	5	7	7	8	9	8	8
100.0	3	3	4	5	6	7	7	8	7	8
102.5	4	4	5	5	6	7	7	7	7	8
105.0	4	4	4	5	6	6	7	7	7	7
107.5	4	4	5	5	6	7	7	7	7	7
110.0	5	5	5	5	6	7	7	7	7	8
112.5	5	5	5	6	7	7	8	7	7	8
115.0	5	5	5	6	7	8	8	8	8	8
117.5	6	6	6	6	8	8	8	8	8	9
120.0	7	7	7	7	8	8	9	9	8	9
122.5	8	8	8	8	8	9	9	9	9	10
125.0	9	9	9	9	9	9	10	9	9	10
127.5	9	9	9	9	9	9	10	10	9	11
130.0	10	10	10	10	10	10	10	10	10	11

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CANDELA TABULATION - (Cont.)

132.5	10	10	10	10	10	10	10	10	10	11
135.0	9	9	9	8	9	9	10	9	9	10
137.5	5	5	5	6	7	7	8	8	8	8
140.0	1	1	3	4	5	5	5	6	6	6
142.5	1	1	3	4	5	5	5	5	5	6
145.0	1	1	3	4	5	5	5	5	5	6
147.5	1	1	3	4	5	5	5	5	5	5
150.0	1	1	3	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	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	1705	1705	1705	1705	1705	1705	1705	1705	1705	1705
2.5	1707	1717	1701	1697	1705	1707	1716	1723	1695	1661
5.0	1581	1595	1576	1616	1625	1641	1657	1668	1654	1616
7.5	1628	1659	1667	1707	1655	1569	1502	1542	1527	1582
10.0	1667	1622	1648	1669	1607	1591	1545	1540	1482	1544
12.5	1717	1754	1790	1768	1669	1564	1565	1617	1569	1566
15.0	1898	1873	1881	1795	1671	1696	1683	1575	1462	1320
17.5	1981	1991	1965	1938	1772	1757	1669	1411	1178	1042
20.0	2218	2174	2162	1950	1840	1790	1462	1171	996	939
22.5	2415	2383	2361	2156	1955	1697	1262	1037	957	935
25.0	2668	2629	2578	2305	2060	1562	1128	1003	965	969
27.5	2890	2848	2757	2515	2118	1407	1105	1019	1037	1079
30.0	3087	3091	2937	2605	2038	1382	1129	1067	1137	1191
32.5	3369	3238	3042	2649	1949	1384	1165	1125	1231	1390
35.0	3599	3520	3206	2679	1827	1405	1198	1167	1343	1541
37.5	3923	3734	3433	2616	1754	1408	1200	1202	1419	1614
40.0	4139	3850	3504	2548	1703	1400	1182	1191	1420	1465
42.5	4338	3947	3525	2461	1627	1372	1129	1110	1251	1108
45.0	4561	4080	3614	2354	1547	1304	1039	931	925	776
47.5	4768	4173	3660	2239	1457	1186	887	723	635	549
50.0	4931	4196	3609	2152	1337	1021	720	547	444	401
52.5	5023	4205	3557	2077	1160	812	535	397	321	303
55.0	5050	4172	3473	1968	937	574	366	276	233	226
57.5	4945	4037	3323	1796	701	375	258	194	168	165
60.0	4647	3783	3045	1522	487	279	196	143	119	118
62.5	4144	3329	2629	1225	353	227	156	109	84	85
65.0	3490	2716	2058	898	282	185	125	83	61	60
67.5	2631	2008	1347	553	226	151	97	67	46	42
70.0	1727	1323	796	324	171	115	76	55	37	32
72.5	1017	754	486	211	115	82	60	45	29	21
75.0	725	515	333	151	85	61	49	32	16	10
77.5	511	355	228	113	65	51	39	20	8	5

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CANDELA TABULATION - (Cont.)

80.0	312	231	161	82	53	43	30	15	5	4
82.5	209	156	113	58	43	35	26	13	4	4
85.0	139	96	65	38	34	31	23	12	4	3
87.5	64	39	29	24	25	23	17	10	3	3
90.0	13	9	15	22	25	23	16	10	4	3
92.5	10	8	16	23	26	24	18	12	5	4
95.0	10	8	15	22	25	23	18	13	5	5
97.5	9	7	13	18	21	19	16	12	7	5
100.0	9	7	10	15	16	16	14	11	7	5
102.5	8	7	9	11	14	14	13	11	8	6
105.0	8	7	9	10	12	13	12	10	8	6
107.5	8	8	9	10	11	12	11	10	8	7
110.0	8	8	9	10	11	11	11	10	8	7
112.5	8	8	9	10	11	11	11	10	9	7
115.0	8	9	10	11	12	12	12	11	10	8
117.5	9	10	10	11	12	12	12	12	10	9
120.0	9	10	11	11	13	13	13	12	11	9
122.5	10	11	11	12	13	14	14	13	12	10
125.0	11	11	12	13	13	14	14	14	13	11
127.5	11	12	12	12	13	13	14	14	13	11
130.0	12	12	12	12	13	14	14	13	13	11
132.5	12	12	12	12	13	13	13	13	12	11
135.0	11	11	12	12	12	12	12	11	10	9
137.5	9	9	9	10	10	10	9	8	6	5
140.0	7	7	7	8	8	7	7	6	5	4
142.5	6	6	7	7	7	6	6	5	4	3
145.0	6	6	6	7	7	6	5	5	4	2
147.5	6	6	6	6	6	6	5	5	3	2
150.0	6	6	6	6	6	6	5	5	3	2
152.5	6	6	6	6	6	5	5	4	3	1
155.0	5	6	6	6	6	5	5	4	3	1
157.5	5	5	6	6	5	5	5	4	2	1
160.0	5	5	5	5	5	5	4	3	2	1
162.5	5	5	5	5	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	1705	1705
2.5	1676	1674
5.0	1597	1604
7.5	1584	1566
10.0	1594	1565
12.5	1576	1555
15.0	1343	1339
17.5	1021	1019
20.0	951	960
22.5	953	971
25.0	1027	1058

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

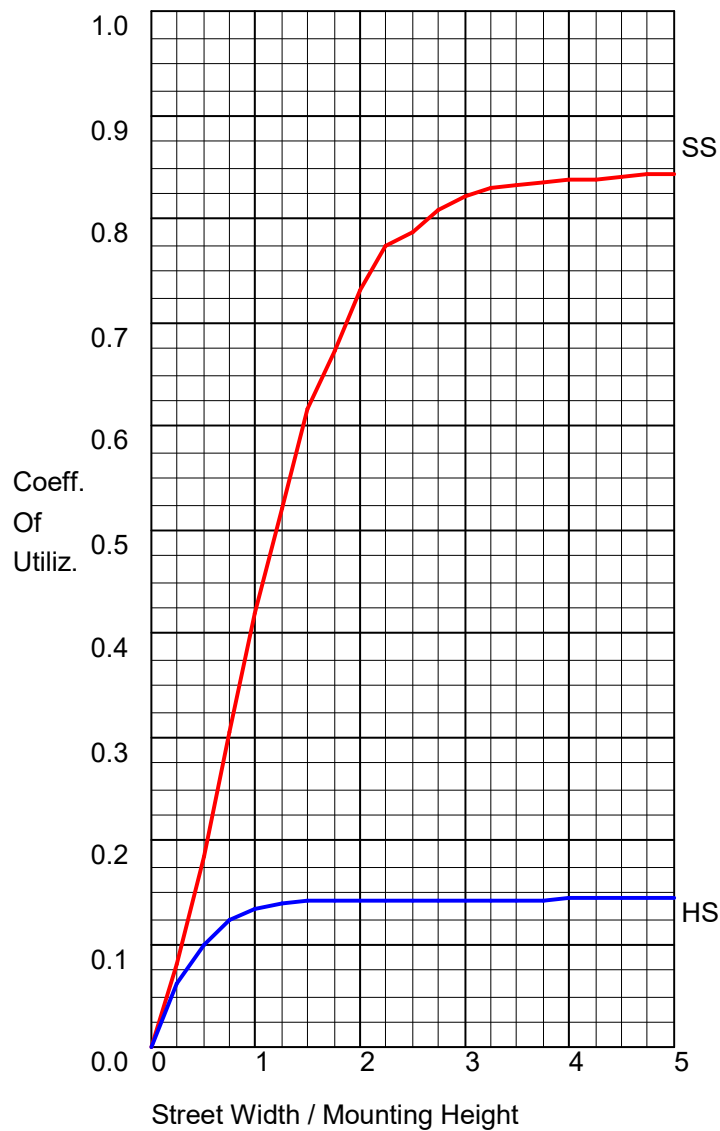
27.5	1148	1188
30.0	1292	1298
32.5	1509	1517
35.0	1607	1618
37.5	1585	1556
40.0	1308	1272
42.5	971	949
45.0	728	719
47.5	550	553
50.0	425	427
52.5	325	324
55.0	248	250
57.5	191	193
60.0	145	148
62.5	111	114
65.0	83	85
67.5	60	62
70.0	43	45
72.5	25	26
75.0	10	11
77.5	3	4
80.0	1	1
82.5	0	0
85.0	0	0
87.5	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	5	5
110.0	5	6
112.5	6	6
115.0	7	7
117.5	7	7
120.0	8	8
122.5	9	8
125.0	10	9
127.5	10	9
130.0	10	9
132.5	9	9
135.0	7	7
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

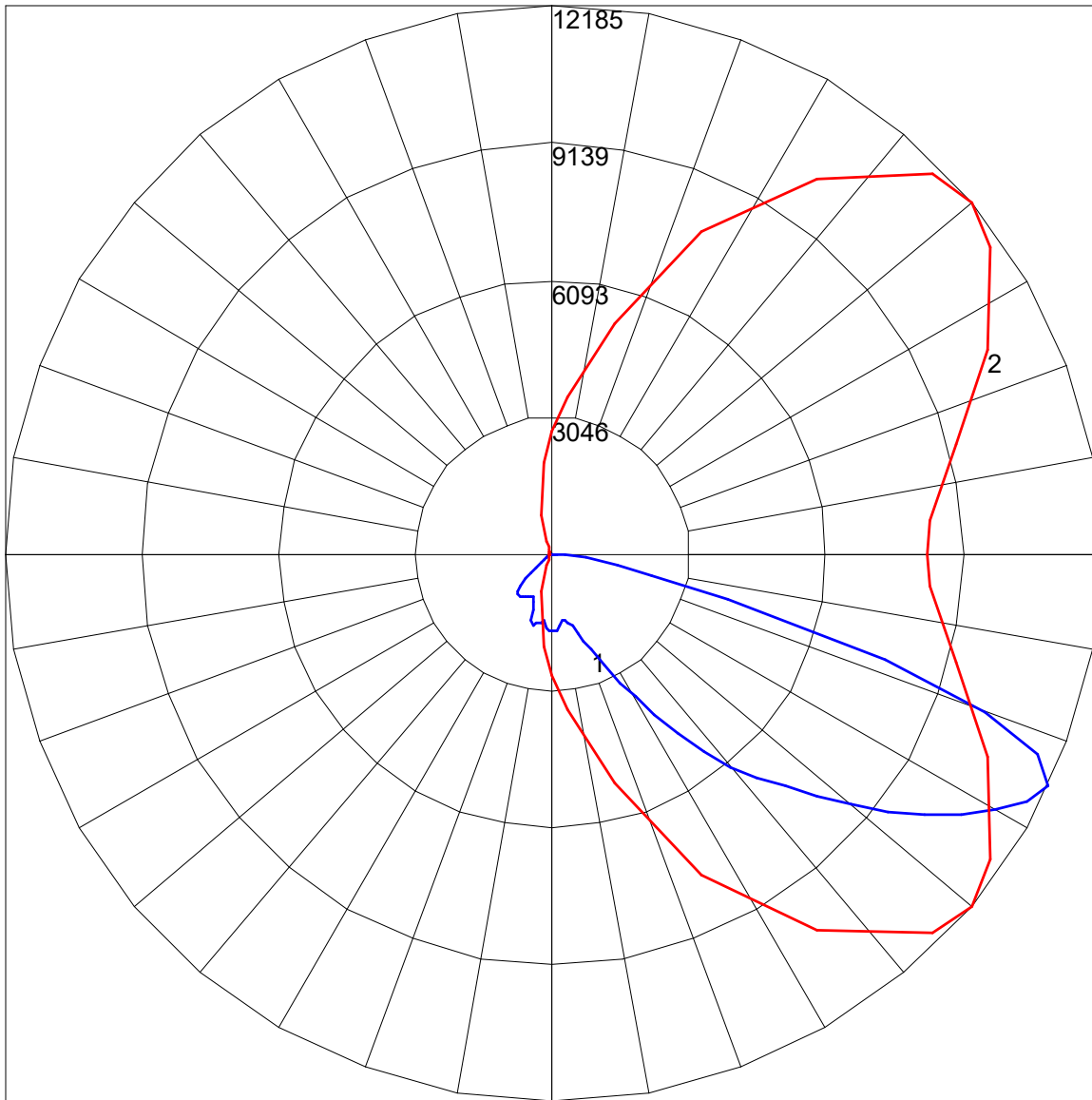
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

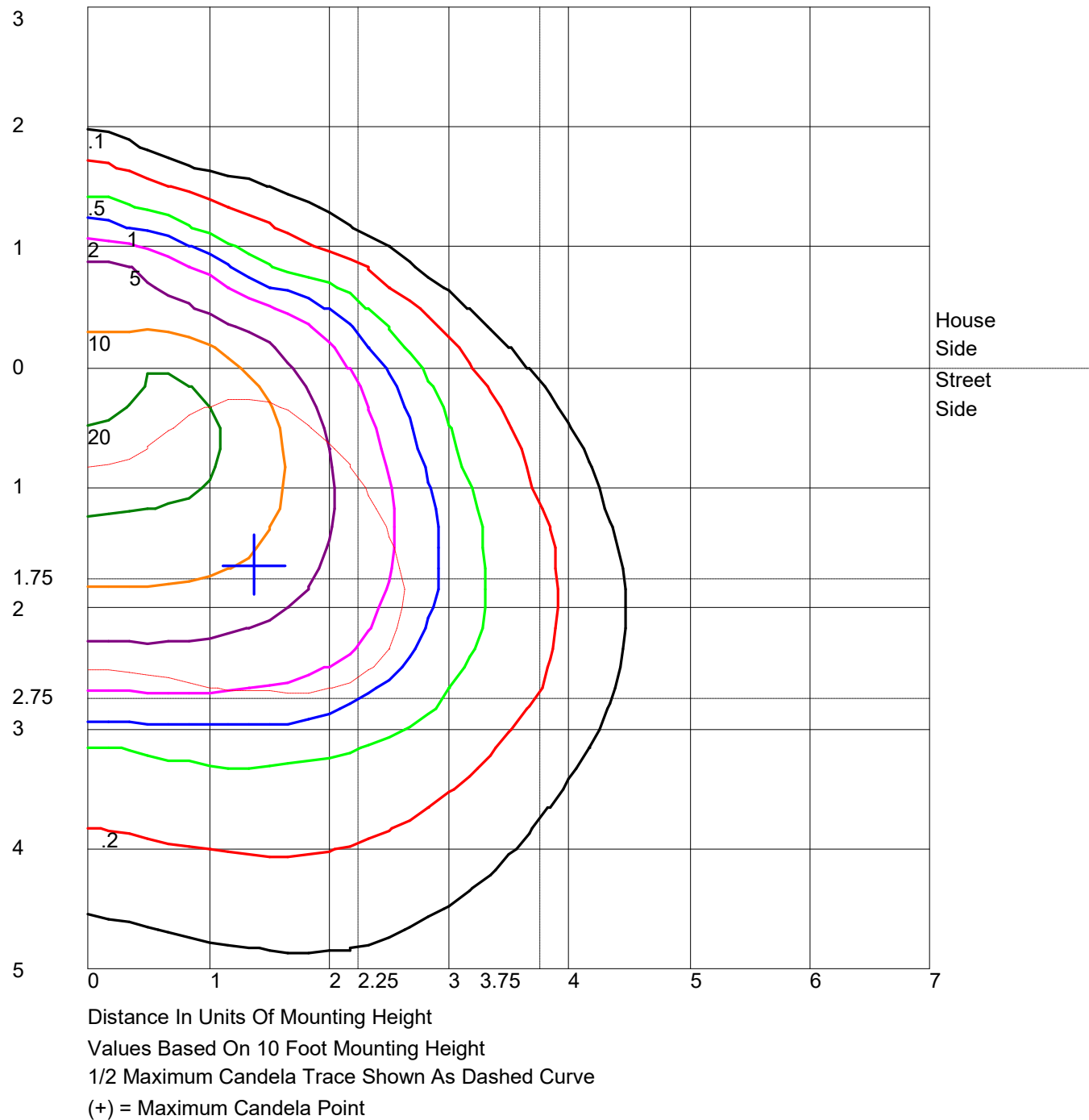
	Lumens	Percent Of Luminaire
Downward Street Side	14687.7	85.3
Downward House Side	2483.0	14.4
Downward Total	17170.7	99.7
Upward Street Side	23.1	0.1
Upward House Side	29.7	0.2
Upward Total	52.8	0.3
Total Flux	17223.5	100.0

POLAR GRAPH

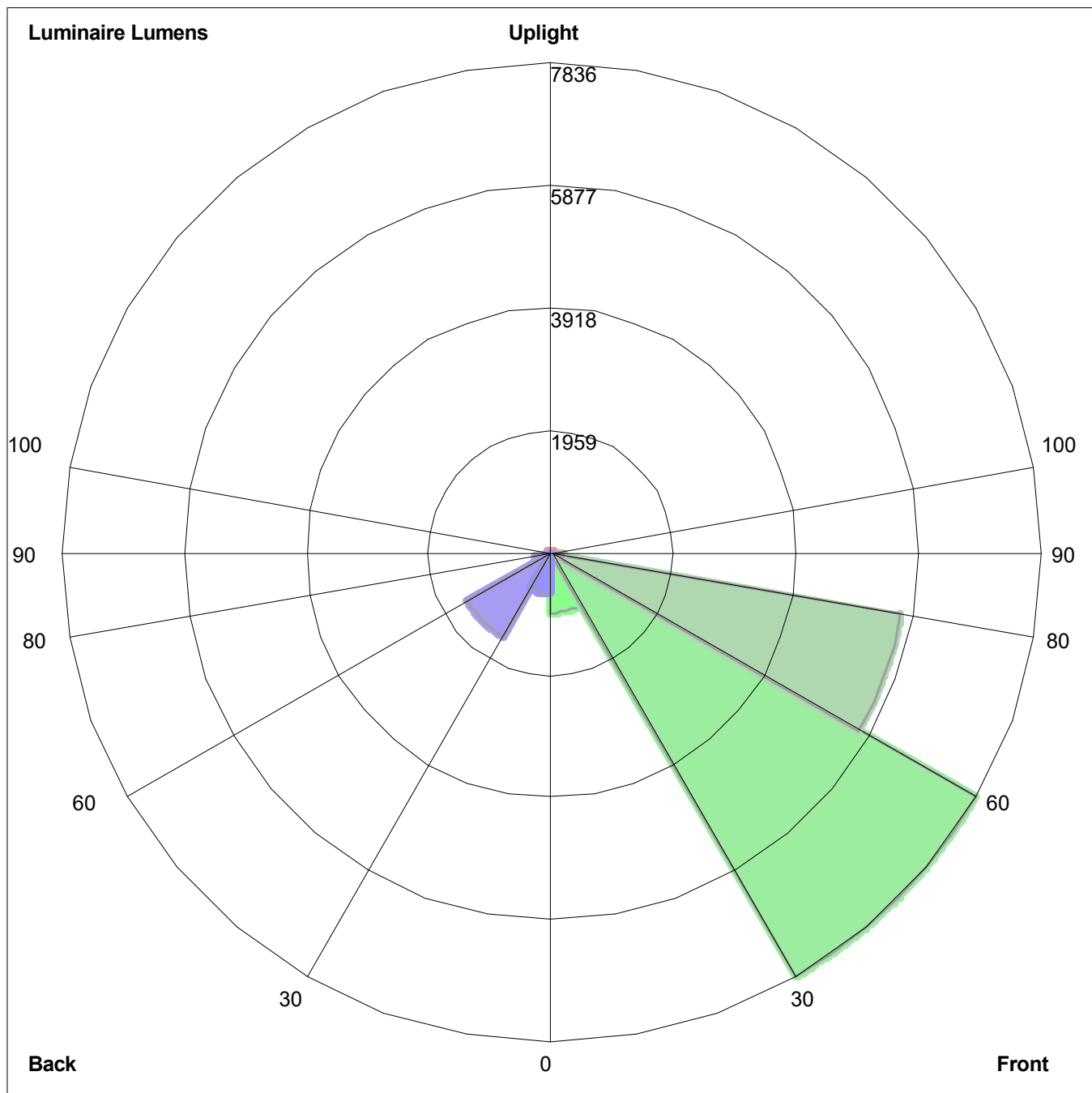


Maximum Candela = 12185 Located At Horizontal Angle = 40, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=963.6, Medium=7835.8, High=5681.1, Very High=207.2
Back: Low=654.9, Medium=1543.6, High=270.4, Very High=14.0
Uplight: Low=12.8, High=40.0

BUG Rating : B2-U2-G3