



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11747

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/23/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-2-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18787
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	227.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19322
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	19322
Maximum Candela Angle (<90 Degrees Vertical)	80H 57.5V
Maximum Candela At 90 Degrees Vertical	21 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	750 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1464.0	N.A.	7.8
FM - Front-Medium (30-60)	10644.9	N.A.	56.7
FH - Front-High (60-80)	3408.2	N.A.	18.1
FVH - Front-Very High (80-90)	74.0	N.A.	0.4
BL - Back-Low (0-30)	790.0	N.A.	4.2
BM - Back-Medium (30-60)	1968.9	N.A.	10.5
BH - Back-High (60-80)	398.6	N.A.	2.1
BVH - Back-Very High (80-90)	13.5	N.A.	0.1
UL - Uplight-Low (90-100)	5.7	N.A.	0.0
UH - Uplight-High (100-180)	19.6	N.A.	0.1
Total	18787.4	N.A.	100.0
BUG Rating	B2-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>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>80</u>
0.0	1924	1924	1924	1924	1924	1924	1924	1924	1924	1924
2.5	1959	1965	1965	1980	1981	1985	1991	1955	1945	1917
5.0	1967	1977	2025	2013	2067	1936	1931	1888	1834	1815
7.5	2012	2043	2095	1991	2024	1941	1974	2045	1991	1927
10.0	2129	2131	2204	2047	2107	2135	2157	2126	2069	2004
12.5	2311	2428	2318	2269	2327	2292	2315	2277	2264	2266
15.0	2493	2604	2549	2610	2680	2559	2581	2529	2555	2479
17.5	2657	2763	2718	2775	2851	2977	2846	2899	2945	2804
20.0	3026	3099	3102	3049	3142	3182	3306	3247	3316	3279
22.5	3284	3308	3386	3468	3498	3508	3789	3796	3937	3901
25.0	3784	3670	3763	3839	3931	3892	4295	4596	4636	4613
27.5	4308	4431	4470	4313	4379	4486	4833	5553	5813	5609
30.0	5001	4914	4845	4889	4962	5176	5585	6734	7033	6905
32.5	5891	5965	5621	5400	5607	5826	6657	8214	8622	8481
35.0	6832	6691	6457	6297	6208	6761	7665	9385	10201	9931
37.5	7793	7691	7323	6993	7192	7436	8570	10258	10875	10986
40.0	8180	8179	8020	7926	8027	8296	9273	10583	11360	11283
42.5	8288	8291	8261	8328	8691	9035	10143	10833	11550	11687
45.0	8033	8067	8107	8389	9028	9817	11049	11536	12084	12445
47.5	7415	7451	7586	7991	8845	10085	11950	12680	12968	13468
50.0	6542	6509	6724	7166	8199	9870	12798	13973	14009	14602
52.5	5375	5418	5653	6156	7218	9176	13416	15338	15416	16397
55.0	4128	4172	4410	4998	5997	7970	13461	16480	17021	18187
57.5	2943	2995	3211	3720	4707	6567	12609	16753	18123	19322
60.0	2052	2094	2274	2635	3393	4846	10975	15959	18312	19161
62.5	1485	1495	1648	1853	2276	3291	8911	13920	17236	17585
65.0	1050	1064	1173	1401	1649	2119	6702	11571	14620	14622
67.5	714	729	781	986	1265	1451	4534	8765	11629	11293
70.0	437	446	467	653	922	1074	2763	6012	7941	7297
72.5	330	329	332	410	633	787	1528	3666	4609	3556
75.0	223	230	228	268	427	562	823	2236	2247	1371
77.5	151	152	155	166	271	396	493	1285	1188	758
80.0	98	103	110	104	149	253	310	703	750	529
82.5	92	92	88	83	90	128	182	358	489	411
85.0	69	69	65	66	71	90	107	173	251	247
87.5	43	41	38	38	41	54	66	87	89	90
90.0	13	13	11	9	9	10	9	9	12	10
92.5	6	6	5	5	3	0	0	0	1	1
95.0	4	3	4	4	2	0	0	0	0	0
97.5	4	3	4	4	2	0	0	0	0	0
100.0	4	3	4	4	2	0	0	0	0	0
102.5	4	3	4	4	2	0	0	0	0	0
105.0	4	3	4	4	2	0	0	0	0	0
107.5	4	4	4	4	2	0	0	0	0	0
110.0	5	5	5	5	3	1	0	0	0	0
112.5	5	5	5	5	3	1	0	0	0	0
115.0	7	6	6	5	3	1	0	0	1	1
117.5	8	7	6	6	4	2	0	0	1	2
120.0	9	8	7	6	4	2	0	1	2	2
122.5	10	10	8	7	5	3	0	2	3	3
125.0	11	11	9	7	5	3	1	2	4	4
127.5	12	12	10	8	6	4	2	3	4	5
130.0	12	12	10	9	6	4	2	3	5	5

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CANDELA TABULATION - (Cont.)

132.5	13	13	11	9	6	5	2	3	5	6
135.0	12	11	10	8	6	4	2	3	5	5
137.5	6	5	5	4	3	1	0	0	1	2
140.0	1	1	2	2	0	0	0	0	0	0
142.5	0	1	2	1	0	0	0	0	0	0
145.0	0	1	1	1	0	0	0	0	0	0
147.5	0	1	1	1	0	0	0	0	0	0
150.0	1	1	1	1	0	0	0	0	0	0
152.5	1	1	1	1	0	0	0	0	0	0
155.0	1	1	1	1	0	0	0	0	0	0
157.5	1	1	1	1	0	0	0	0	0	0
160.0	0	1	1	0	0	0	0	0	0	0
162.5	1	1	1	0	0	0	0	0	0	0
165.0	1	1	1	0	0	0	0	0	0	0
167.5	1	1	1	1	0	0	0	0	0	0
170.0	1	1	1	1	0	0	0	0	0	0
172.5	0	1	1	1	0	0	0	0	0	0
175.0	1	1	2	1	0	0	0	0	0	0
177.5	1	1	2	2	0	0	0	0	0	0
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	1924	1924	1924	1924	1924	1924	1924	1924	1924	1924
2.5	1923	1912	1923	1918	1903	1904	1915	1916	1890	1884
5.0	1841	1826	1793	1782	1792	1786	1757	1766	1736	1698
7.5	1920	1909	1869	1871	1778	1691	1560	1583	1555	1605
10.0	1988	1935	1879	1904	1698	1642	1572	1527	1450	1519
12.5	2149	2114	2081	1958	1752	1642	1560	1608	1628	1704
15.0	2378	2319	2190	1975	1731	1699	1708	1784	1844	1806
17.5	2692	2530	2393	2103	1794	1784	1916	1966	1950	1938
20.0	3062	2924	2694	2237	1901	1997	2009	2051	1936	1759
22.5	3666	3323	3133	2537	2100	2147	2097	1870	1528	1269
25.0	4348	4052	3671	2761	2436	2295	1908	1408	1028	759
27.5	5322	4771	4329	3102	2681	2248	1489	913	622	514
30.0	6542	5769	5073	3476	2898	2002	1059	605	496	450
32.5	7725	6913	5870	3836	3008	1647	714	513	443	415
35.0	9120	8063	6757	4240	2915	1236	595	461	414	389
37.5	10238	9215	7496	4534	2633	853	536	430	375	349
40.0	10660	9765	7838	4772	2241	664	486	397	334	304
42.5	11242	10248	8139	4798	1615	587	442	356	287	249
45.0	12036	10919	8536	4648	975	527	395	306	235	199
47.5	13026	11722	8927	4208	716	467	340	250	190	158
50.0	14180	12509	9207	3487	613	414	280	198	152	122
52.5	15564	13088	9290	2557	555	361	224	154	120	91
55.0	16992	13211	9009	1722	512	303	175	115	90	66
57.5	17389	12590	8181	1233	471	247	131	83	64	41
60.0	16600	11277	6980	1021	455	201	96	55	37	18
62.5	14413	9453	5574	845	437	160	68	29	21	10
65.0	11628	7207	4043	646	381	125	45	14	14	7
67.5	8286	4993	2548	461	288	93	29	11	12	7
70.0	4936	3006	1429	321	196	61	23	13	12	8
72.5	2145	1495	783	236	124	38	23	17	11	6
75.0	917	789	486	169	70	30	26	18	10	6
77.5	579	541	315	111	45	31	27	20	9	6

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CANDELA TABULATION - (Cont.)

80.0	456	384	205	63	35	30	28	21	10	6
82.5	329	234	122	30	28	28	27	20	10	7
85.0	188	119	57	16	20	26	26	19	9	7
87.5	69	31	9	8	15	23	22	16	9	6
90.0	3	3	4	7	14	21	20	14	8	6
92.5	0	2	4	7	13	19	18	11	7	6
95.0	0	2	3	6	10	14	13	8	6	5
97.5	0	2	3	5	8	10	8	7	5	5
100.0	0	2	3	5	6	7	7	6	4	5
102.5	0	2	3	4	6	6	6	5	4	5
105.0	0	2	3	4	5	5	5	5	4	5
107.5	0	2	3	4	5	5	5	5	4	5
110.0	1	2	3	5	5	5	5	5	5	5
112.5	1	3	3	5	5	5	5	5	5	5
115.0	2	3	4	5	6	5	5	5	5	5
117.5	3	4	4	5	6	6	6	6	6	6
120.0	4	4	5	6	6	6	6	6	6	6
122.5	5	5	6	6	7	7	7	7	7	7
125.0	5	6	6	7	7	7	7	7	7	7
127.5	6	6	7	7	7	7	7	8	8	8
130.0	6	6	7	7	7	7	7	8	8	8
132.5	6	7	7	7	7	7	8	8	8	8
135.0	6	6	6	7	7	7	7	8	8	8
137.5	2	3	4	4	5	5	6	7	7	7
140.0	0	1	1	2	3	4	5	6	6	6
142.5	0	0	0	2	3	3	4	5	6	5
145.0	0	0	0	1	2	3	4	5	6	5
147.5	0	0	0	1	2	4	5	6	6	5
150.0	0	0	0	1	3	4	5	6	6	5
152.5	0	0	0	2	3	4	5	6	6	6
155.0	0	0	0	2	3	4	5	6	6	5
157.5	0	0	0	1	3	4	5	6	6	5
160.0	0	0	0	1	2	3	4	5	5	4
162.5	0	0	0	1	2	3	4	5	5	4
165.0	0	0	0	0	1	2	3	4	4	4
167.5	0	0	0	0	1	2	3	4	4	3
170.0	0	0	0	0	1	1	2	3	3	3
172.5	0	0	0	0	0	1	2	3	3	3
175.0	0	0	0	0	0	1	2	3	3	3
177.5	0	0	0	0	0	1	1	2	3	2
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	1924	1924
2.5	1866	1830
5.0	1673	1653
7.5	1590	1559
10.0	1555	1481
12.5	1740	1693
15.0	1943	1909
17.5	2027	1969
20.0	1733	1652
22.5	1162	1145
25.0	669	652

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CANDELA TABULATION - (Cont.)

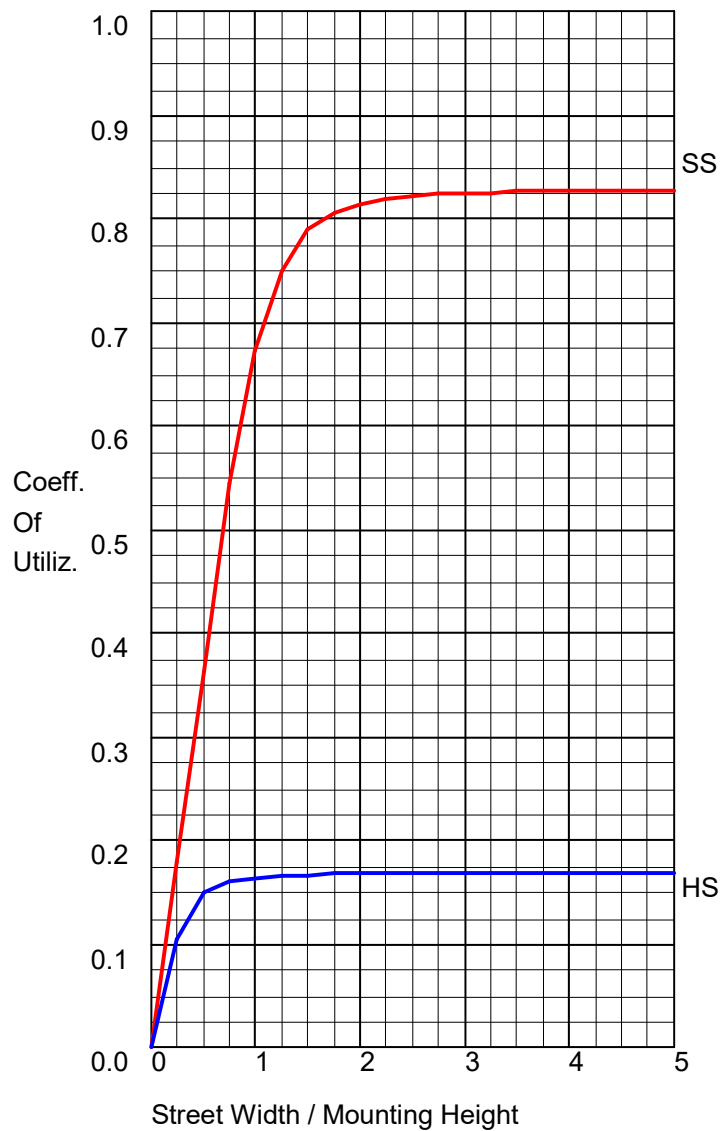
27.5	495	492
30.0	443	442
32.5	420	419
35.0	387	387
37.5	347	350
40.0	296	294
42.5	237	233
45.0	188	187
47.5	146	145
50.0	111	110
52.5	81	81
55.0	55	54
57.5	30	29
60.0	13	13
62.5	6	6
65.0	3	4
67.5	4	4
70.0	4	4
72.5	3	2
75.0	2	2
77.5	3	2
80.0	3	3
82.5	3	3
85.0	3	4
87.5	3	3
90.0	3	3
92.5	3	3
95.0	3	2
97.5	3	2
100.0	3	2
102.5	3	3
105.0	2	2
107.5	2	3
110.0	3	3
112.5	3	2
115.0	3	3
117.5	4	4
120.0	5	5
122.5	6	7
125.0	7	7
127.5	8	8
130.0	8	8
132.5	9	9
135.0	8	8
137.5	6	6
140.0	4	4
142.5	4	4
145.0	3	3
147.5	3	3
150.0	4	3
152.5	4	4
155.0	3	4
157.5	3	3
160.0	2	2
162.5	2	1
165.0	1	0

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CANDELA TABULATION - (Cont.)

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

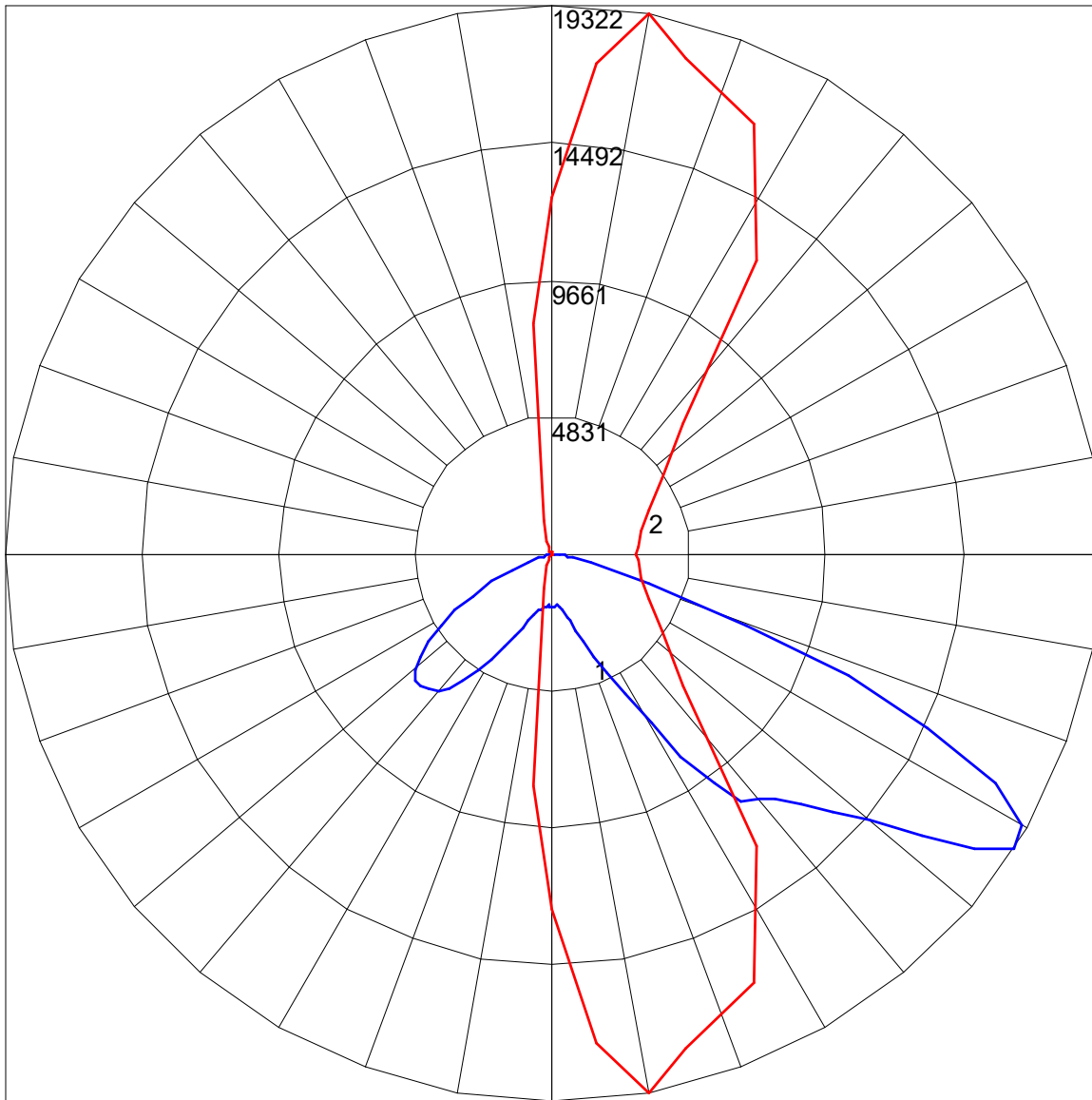
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

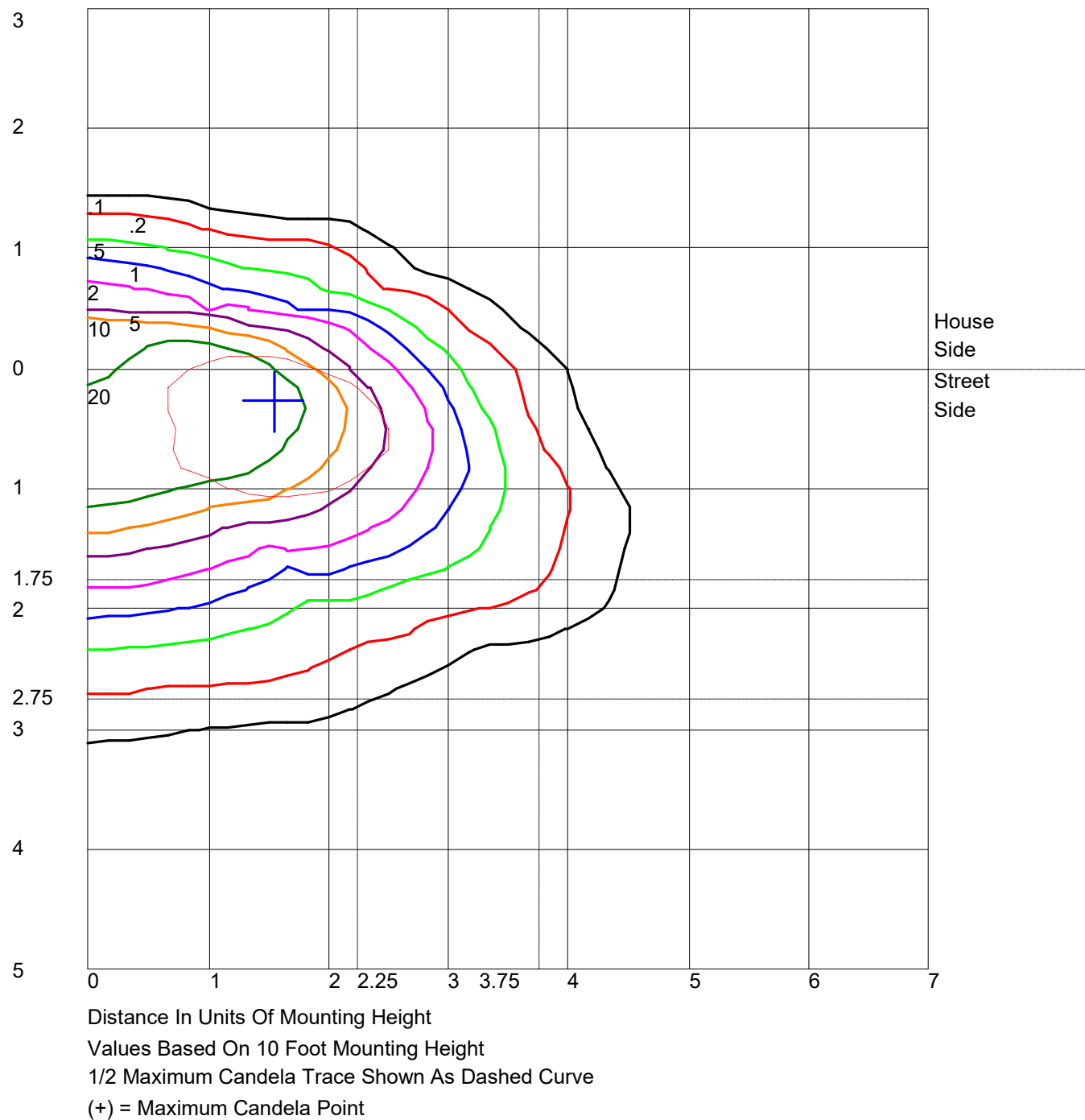
	Lumens	Percent Of Luminaire
Downward Street Side	15591.1	83.0
Downward House Side	3171.0	16.9
Downward Total	18762.1	99.9
Upward Street Side	8.2	0.0
Upward House Side	17.1	0.1
Upward Total	25.3	0.1
Total Flux	18787.4	100.0

POLAR GRAPH

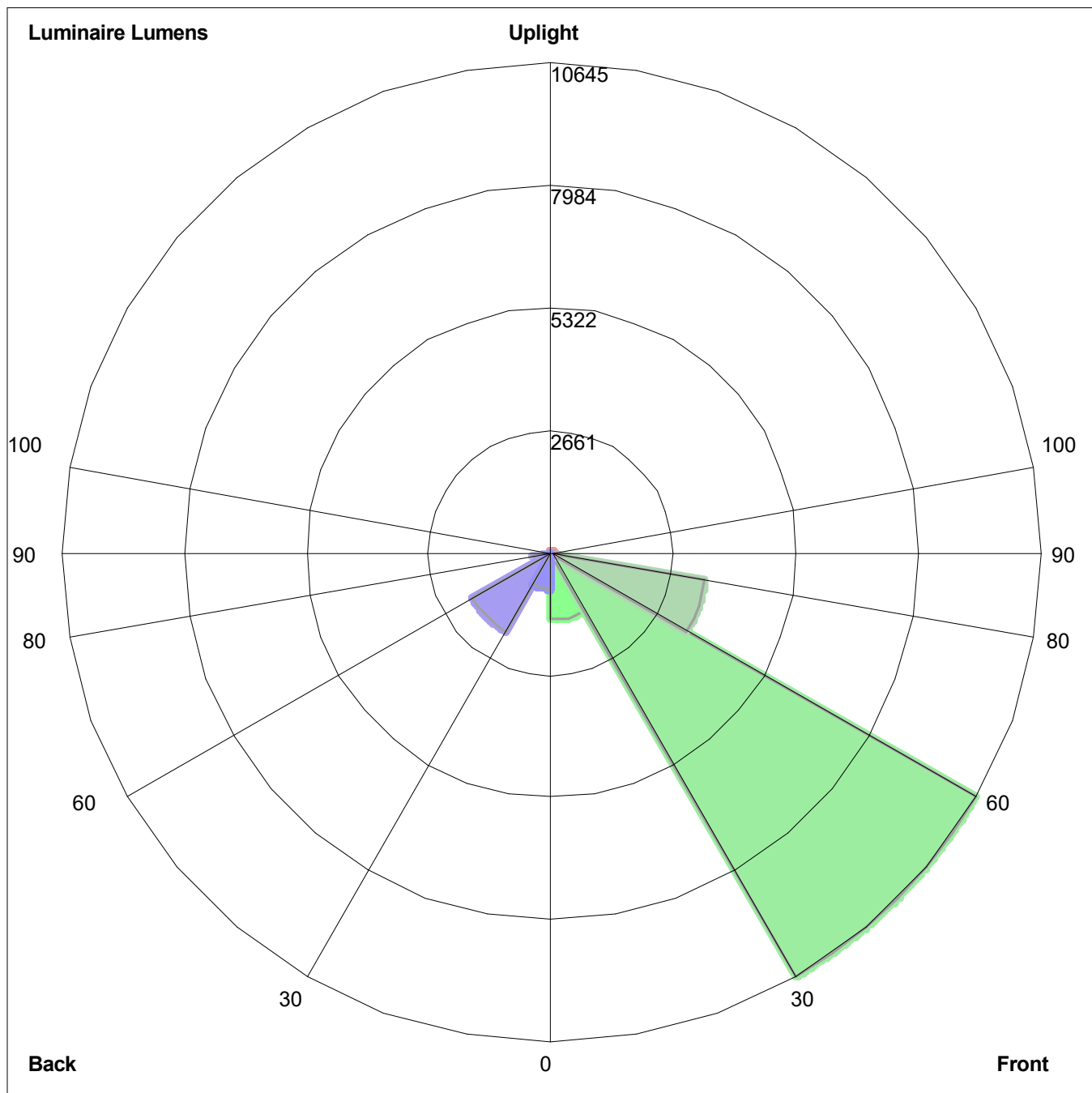


Maximum Candela = 19322 Located At Horizontal Angle = 80, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1464.0, Medium=10644.9, High=3408.2, Very High=74.0
Back: Low=790.0, Medium=1968.9, High=398.6, Very High=13.5
Uplight: Low=5.7, High=19.6

BUG Rating : B2-U2-G2