



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11745
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/23/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-2-LED-25L-30
[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	22912
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	228.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18365
Maximum Candela Angle	80H 60V
Maximum Candela (<90 Degrees Vertical)	18365
Maximum Candela Angle (<90 Degrees Vertical)	80H 60V
Maximum Candela At 90 Degrees Vertical	68 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1049 (4.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-30.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1334.4	N.A.	5.8
FM - Front-Medium (30-60)	9720.8	N.A.	42.4
FH - Front-High (60-80)	3795.0	N.A.	16.6
FVH - Front-Very High (80-90)	118.3	N.A.	0.5
BL - Back-Low (0-30)	1124.0	N.A.	4.9
BM - Back-Medium (30-60)	5033.2	N.A.	22.0
BH - Back-High (60-80)	1612.5	N.A.	7.0
BVH - Back-Very High (80-90)	145.3	N.A.	0.6
UL - Uplight-Low (90-100)	7.5	N.A.	0.0
UH - Uplight-High (100-180)	20.7	N.A.	0.1
Total	22911.7	N.A.	100.0
BUG Rating	B4-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>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>80</u>
0.0	1890	1890	1890	1890	1890	1890	1890	1890	1890	1890
2.5	1888	1882	1921	1933	1953	1935	1941	1920	1891	1868
5.0	1884	1920	1982	1979	2019	1882	1870	1834	1810	1805
7.5	1914	1967	2021	1917	1939	1898	1905	1982	1946	1885
10.0	1992	2021	2118	1926	2029	2052	2074	2068	2038	1967
12.5	2193	2295	2182	2145	2213	2163	2223	2202	2206	2215
15.0	2347	2440	2393	2441	2526	2400	2460	2424	2452	2339
17.5	2487	2548	2515	2581	2674	2751	2681	2717	2790	2666
20.0	2782	2845	2801	2809	2913	2976	3073	3029	3092	3043
22.5	3021	2976	3083	3147	3177	3245	3480	3428	3569	3625
25.0	3373	3272	3406	3467	3556	3571	3892	4039	4076	4106
27.5	3856	3934	3990	3868	3947	4022	4337	4799	4955	4890
30.0	4478	4391	4268	4370	4397	4596	4916	5610	5824	5768
32.5	5254	5385	5009	4820	5025	5125	5695	6693	6994	6864
35.0	6188	6070	5819	5684	5560	5901	6485	7729	8311	8152
37.5	7085	7100	6703	6411	6375	6586	7286	8545	9082	9143
40.0	7525	7595	7451	7342	7237	7353	7966	8933	9661	9712
42.5	7780	7780	7686	7774	8009	8129	8789	9287	9921	10040
45.0	7712	7707	7661	7897	8391	8819	9770	9921	10478	10753
47.5	7197	7239	7326	7669	8405	9272	10693	10955	11265	11713
50.0	6407	6465	6586	7018	8006	9351	11670	12220	12216	12819
52.5	5446	5517	5627	6121	7062	8897	12335	13743	13309	14308
55.0	4378	4425	4566	5018	5981	7914	12583	15043	14942	16128
57.5	3304	3285	3434	3895	4777	6611	12133	15673	16527	17639
60.0	2457	2438	2507	2870	3525	5101	10855	15556	17305	18365
62.5	1865	1860	1897	2090	2493	3594	8927	14227	17053	17733
65.0	1498	1487	1523	1643	1828	2364	6883	12288	15672	15957
67.5	1189	1224	1247	1337	1486	1641	4803	9553	12881	12877
70.0	937	977	993	1077	1234	1286	2934	6716	9559	8819
72.5	689	726	733	828	989	1030	1771	4149	5794	4659
75.0	456	490	472	548	715	833	1139	2556	2796	1867
77.5	337	368	306	334	441	612	780	1615	1374	928
80.0	338	372	269	225	266	397	509	1049	801	589
82.5	380	380	244	169	176	262	286	620	508	411
85.0	359	370	202	121	117	165	163	238	261	226
87.5	248	238	130	69	59	73	61	66	69	72
90.0	68	66	34	15	6	6	1	1	3	4
92.5	9	9	7	6	2	1	0	0	2	2
95.0	8	8	6	5	2	0	0	0	0	1
97.5	7	6	6	5	2	0	0	0	0	0
100.0	6	6	5	4	1	0	0	0	0	0
102.5	6	6	5	4	1	0	0	0	0	0
105.0	6	6	5	4	2	0	0	0	0	0
107.5	6	6	5	4	2	0	0	0	0	0
110.0	6	6	6	5	2	1	0	0	0	0
112.5	7	7	6	5	3	1	0	0	0	0
115.0	8	8	7	6	3	2	0	0	0	1
117.5	9	9	8	6	4	2	0	0	1	1
120.0	10	10	9	8	5	2	0	0	2	2
122.5	11	11	10	8	6	3	0	1	2	2
125.0	12	12	11	10	6	4	1	1	3	3
127.5	12	12	11	10	7	5	1	2	4	5
130.0	13	13	12	10	8	6	2	2	4	5

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CANDELA TABULATION - (Cont.)

132.5	14	14	12	11	8	6	2	2	5	6
135.0	13	12	11	9	7	5	1	1	3	4
137.5	6	6	6	4	3	1	0	0	0	1
140.0	3	2	2	2	0	0	0	0	0	0
142.5	2	2	2	1	0	0	0	0	0	0
145.0	2	2	2	1	0	0	0	0	0	0
147.5	2	1	1	0	0	0	0	0	0	0
150.0	2	1	1	0	0	0	0	0	0	0
152.5	2	1	1	0	0	0	0	0	0	0
155.0	2	1	1	0	0	0	0	0	0	0
157.5	2	1	1	0	0	0	0	0	0	0
160.0	2	1	0	0	0	0	0	0	0	0
162.5	2	1	0	0	0	0	0	0	0	0
165.0	1	1	0	0	0	0	0	0	0	0
167.5	1	1	0	0	0	0	0	0	0	0
170.0	1	1	1	0	0	0	0	0	0	0
172.5	1	1	1	0	0	0	0	0	0	0
175.0	1	1	1	1	0	0	0	0	0	0
177.5	1	1	1	1	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	1890	1890	1890	1890	1890	1890	1890	1890	1890	1890
2.5	1877	1873	1887	1892	1903	1891	1894	1887	1880	1855
5.0	1829	1818	1777	1772	1802	1766	1759	1777	1752	1730
7.5	1853	1874	1844	1854	1792	1678	1579	1635	1593	1645
10.0	1929	1895	1843	1917	1716	1689	1629	1576	1559	1622
12.5	2070	2062	2049	1958	1796	1700	1678	1745	1755	1877
15.0	2250	2224	2158	2032	1829	1834	1886	1979	2049	2075
17.5	2537	2446	2375	2147	1950	1988	2155	2222	2289	2373
20.0	2867	2823	2636	2288	2097	2227	2331	2497	2617	2695
22.5	3401	3197	3019	2581	2348	2454	2610	2828	2931	3119
25.0	3938	3793	3506	2845	2728	2763	2966	3079	3338	3527
27.5	4724	4375	4092	3244	3076	3066	3219	3449	3791	3967
30.0	5670	5140	4730	3681	3463	3508	3633	3879	4005	4181
32.5	6528	6006	5349	4108	3855	3876	3965	4027	4256	4490
35.0	7815	7046	6169	4596	4213	4166	4275	4231	4363	4564
37.5	8833	8079	6869	5023	4557	4396	4374	4393	4330	4577
40.0	9284	8671	7281	5446	4847	4560	4453	4360	4250	4322
42.5	9776	9170	7606	5658	4949	4588	4345	4264	4014	3956
45.0	10479	9747	7990	5882	5012	4489	4176	3981	3672	3570
47.5	11493	10509	8395	6094	5013	4306	3923	3681	3307	3180
50.0	12604	11309	8760	6198	4915	4068	3650	3360	2938	2841
52.5	14015	12006	9010	6123	4722	3782	3360	3076	2640	2506
55.0	15519	12424	9105	5893	4419	3417	3043	2801	2366	2212
57.5	16422	12366	8744	5441	4012	3042	2733	2546	2078	1912
60.0	16366	11566	7740	4751	3480	2659	2438	2270	1828	1692
62.5	15109	10168	6410	3936	2959	2278	2153	2003	1616	1485
65.0	12580	8193	5007	3053	2431	1926	1840	1737	1402	1268
67.5	9481	5728	3427	2252	1942	1593	1575	1470	1183	1085
70.0	6003	3635	2233	1623	1555	1329	1362	1221	1017	947
72.5	2953	1953	1457	1238	1282	1124	1148	1024	851	783
75.0	1191	1024	1008	983	1060	949	954	830	672	594
77.5	681	655	703	787	867	776	750	611	500	402

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CANDELA TABULATION - (Cont.)

80.0	502	450	464	633	683	597	508	399	431	340
82.5	347	270	272	485	484	367	300	296	453	386
85.0	180	129	145	303	254	209	211	248	428	369
87.5	58	34	50	87	88	94	105	127	256	261
90.0	3	1	4	10	18	25	25	18	6	9
92.5	2	0	4	9	17	23	22	16	5	7
95.0	0	0	3	7	15	18	17	12	4	6
97.5	0	0	3	6	11	14	12	8	4	6
100.0	0	0	3	6	9	10	8	6	4	6
102.5	0	1	2	4	6	7	6	6	4	6
105.0	0	1	3	4	6	6	5	6	5	6
107.5	0	1	3	4	6	5	5	5	5	6
110.0	0	2	3	4	6	5	5	6	5	6
112.5	1	2	3	4	6	6	5	6	6	6
115.0	1	3	3	5	6	6	6	6	6	6
117.5	2	3	4	5	6	6	6	6	6	7
120.0	2	4	5	6	7	7	7	7	7	8
122.5	3	5	6	6	7	8	8	8	8	9
125.0	5	6	6	7	8	8	9	9	9	11
127.5	6	6	6	7	8	8	8	9	11	12
130.0	6	6	6	8	8	8	9	9	11	12
132.5	6	6	7	8	9	9	9	10	11	13
135.0	5	5	6	6	7	7	8	9	10	12
137.5	1	2	2	3	4	4	5	6	6	6
140.0	0	0	0	1	1	2	3	4	5	5
142.5	0	0	0	0	1	2	3	4	4	4
145.0	0	0	0	0	1	2	3	4	4	4
147.5	0	0	0	0	1	2	3	4	4	4
150.0	0	0	0	0	1	2	3	4	4	4
152.5	0	0	0	0	1	2	3	4	4	4
155.0	0	0	0	0	0	1	3	4	4	3
157.5	0	0	0	0	0	1	3	4	4	3
160.0	0	0	0	0	0	1	2	3	3	3
162.5	0	0	0	0	0	1	2	3	3	2
165.0	0	0	0	0	0	1	2	3	3	2
167.5	0	0	0	0	0	0	2	2	3	2
170.0	0	0	0	0	0	0	1	2	3	2
172.5	0	0	0	0	0	0	1	2	2	2
175.0	0	0	0	0	0	0	1	2	2	3
177.5	0	0	0	0	0	0	1	2	2	3
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	1890	1890
2.5	1829	1810
5.0	1678	1670
7.5	1608	1579
10.0	1668	1590
12.5	1948	1824
15.0	2228	2150
17.5	2537	2412
20.0	2919	2760
22.5	3214	3191
25.0	3690	3605

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CANDELA TABULATION - (Cont.)

27.5	4059	4025
30.0	4340	4323
32.5	4651	4527
35.0	4691	4572
37.5	4698	4585
40.0	4344	4254
42.5	3959	3876
45.0	3539	3466
47.5	3127	3070
50.0	2776	2708
52.5	2458	2382
55.0	2122	2077
57.5	1872	1815
60.0	1664	1614
62.5	1464	1438
65.0	1287	1278
67.5	1169	1171
70.0	1048	1075
72.5	894	937
75.0	657	720
77.5	452	503
80.0	395	447
82.5	440	465
85.0	392	404
87.5	193	264
90.0	6	6
92.5	6	6
95.0	5	6
97.5	5	5
100.0	5	5
102.5	5	5
105.0	5	5
107.5	5	6
110.0	5	6
112.5	6	6
115.0	6	6
117.5	7	7
120.0	8	8
122.5	8	9
125.0	10	10
127.5	11	11
130.0	11	12
132.5	12	12
135.0	10	10
137.5	6	6
140.0	4	4
142.5	3	3
145.0	2	3
147.5	2	2
150.0	2	2
152.5	2	2
155.0	1	1
157.5	1	1
160.0	1	0
162.5	1	0
165.0	1	0

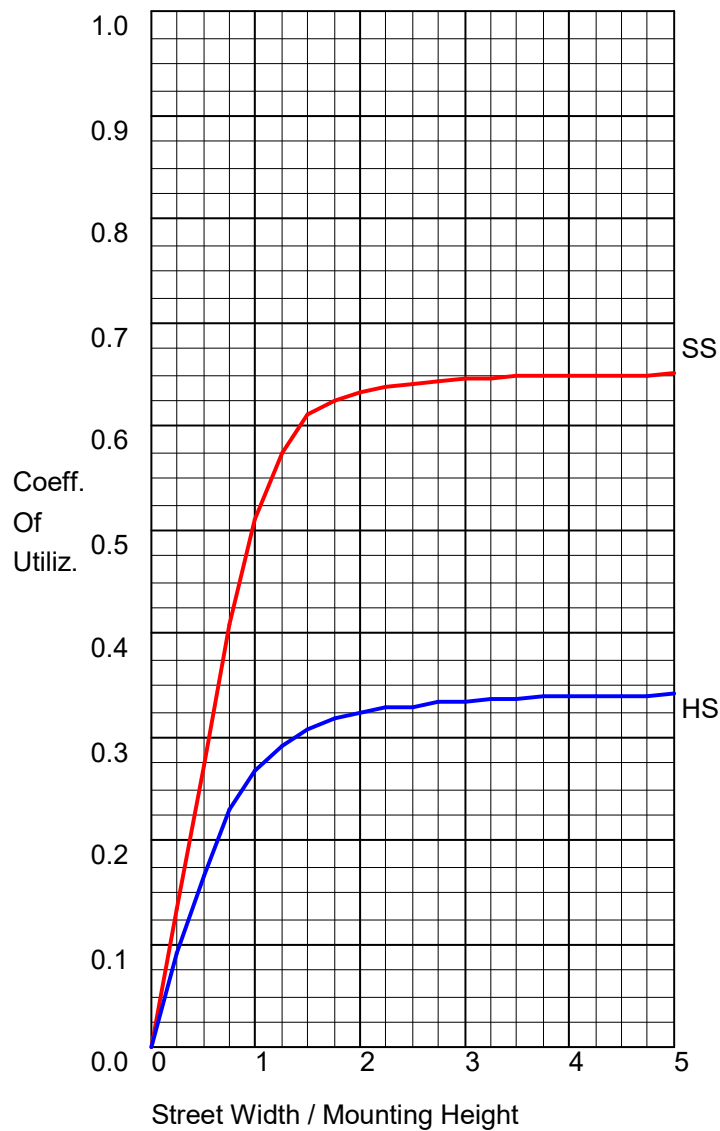
IES ROAD REPORT

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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

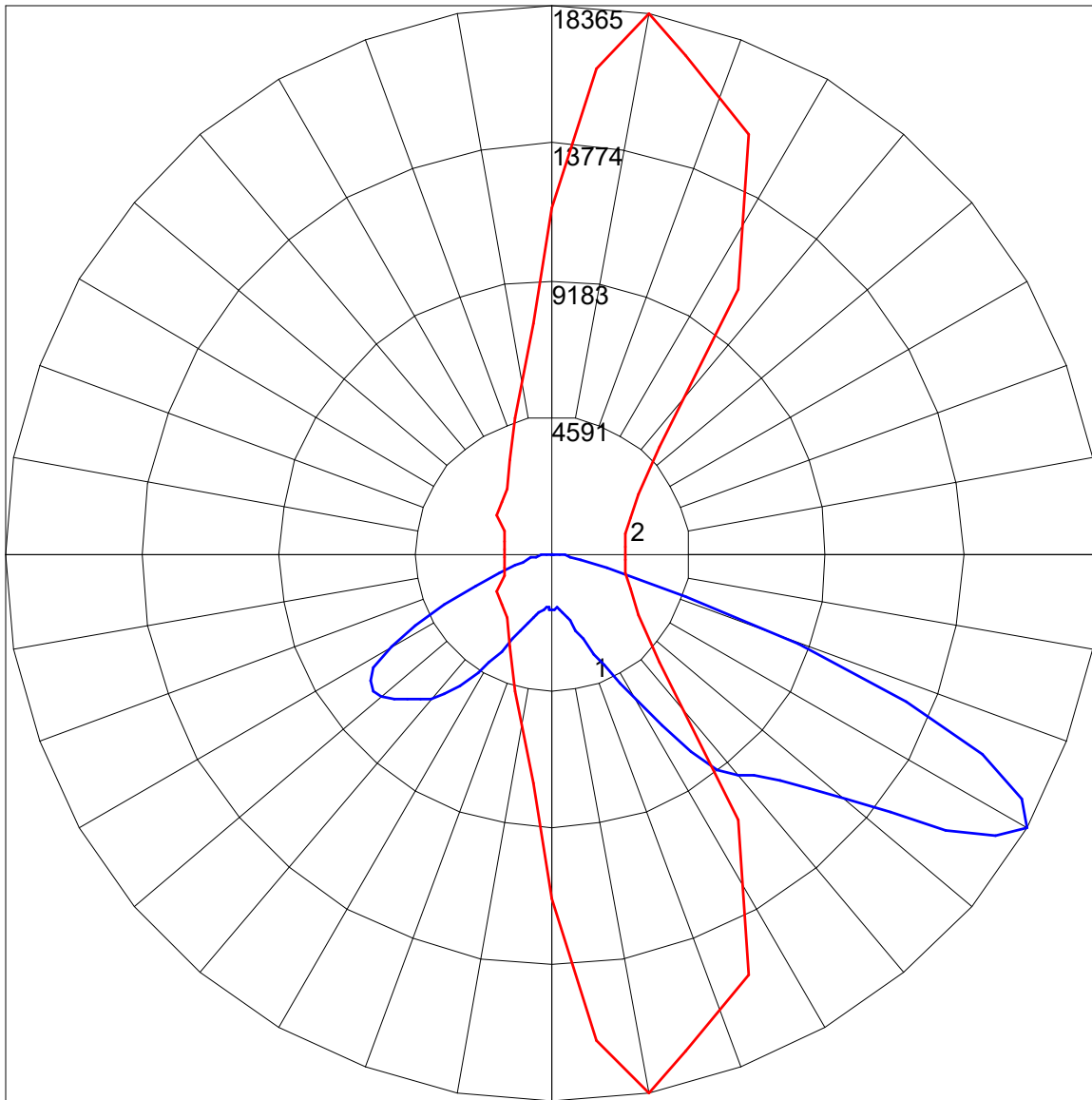
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

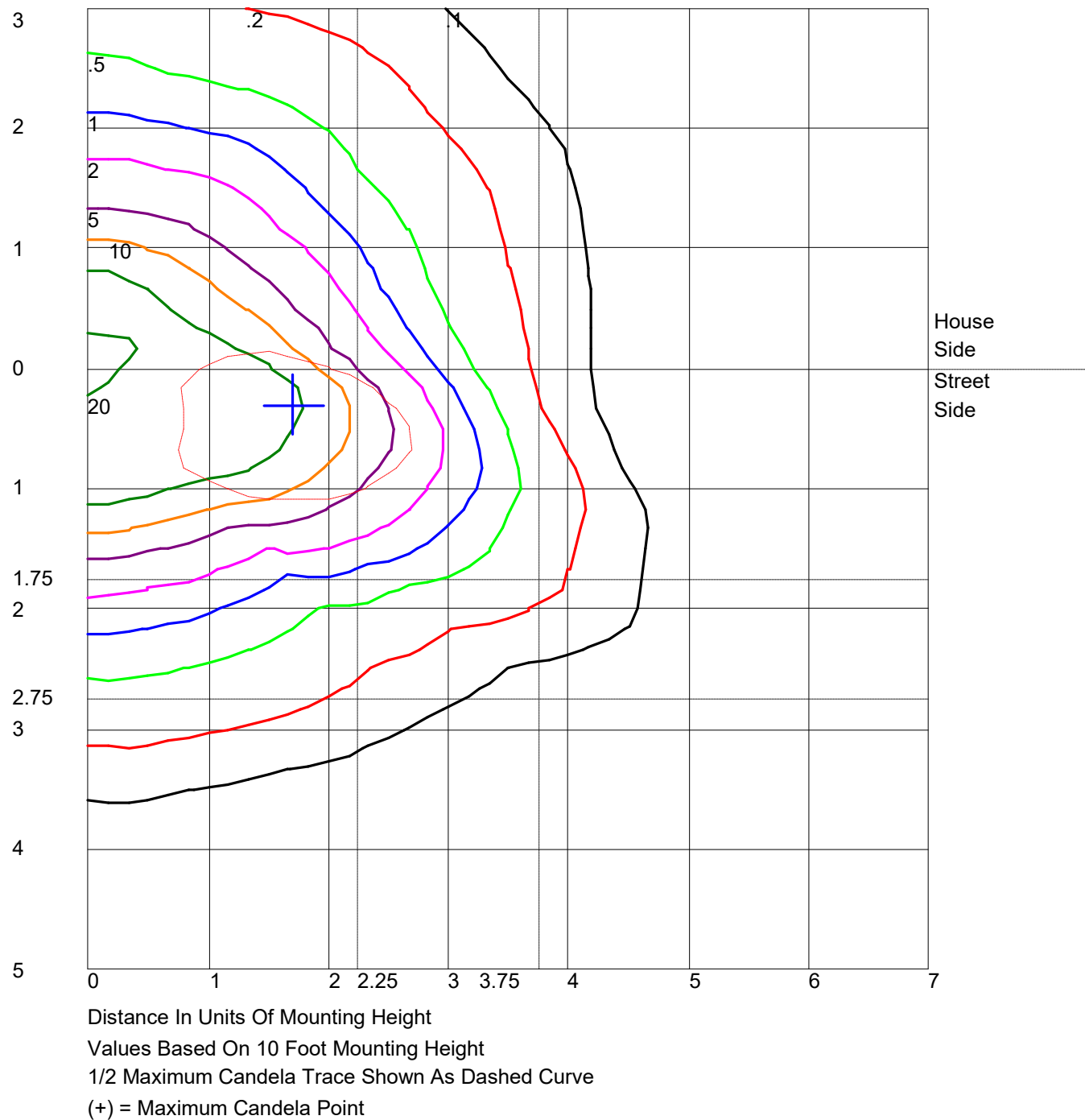
	Lumens	Percent Of Luminaire
Downward Street Side	14968.5	65.3
Downward House Side	7915.0	34.5
Downward Total	22883.5	99.9
Upward Street Side	9.5	0.0
Upward House Side	18.8	0.1
Upward Total	28.3	0.1
Total Flux	22911.8	100.0

POLAR GRAPH

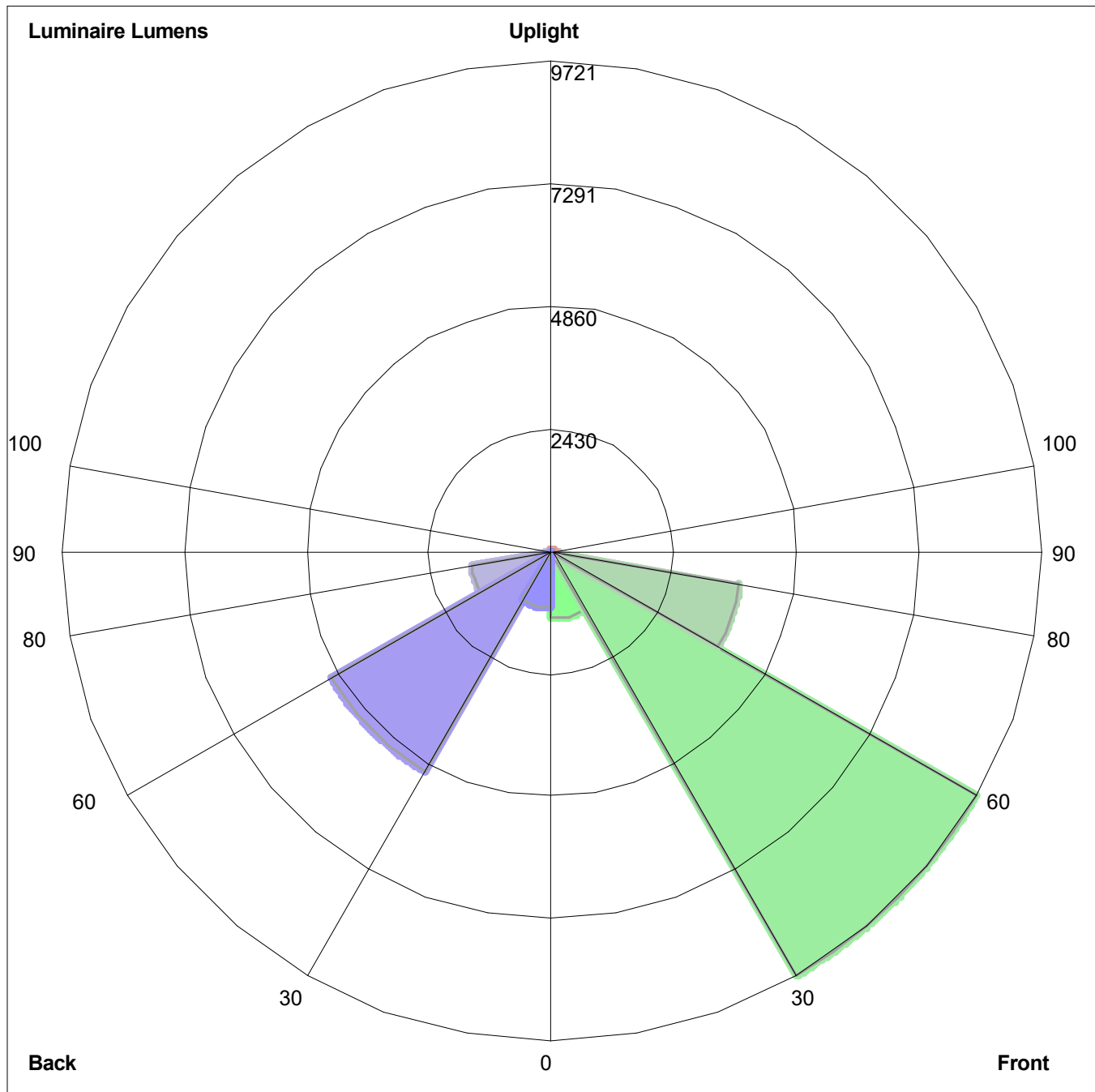


Maximum Candela = 18365 Located At Horizontal Angle = 80, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1334.4, Medium=9720.8, High= 3795.0, Very High=118.3
Back: Low= 1124.0, Medium=5033.2, High=1612.5, Very High=145.3
Uplight: Low=7.5, High=20.7

BUG Rating : B4-U2-G3