



## IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-50-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  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-PT-2-LED-25L-50-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	19667
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	227.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20228
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	20228
Maximum Candela Angle (<90 Degrees Vertical)	80H 57.5V
Maximum Candela At 90 Degrees Vertical	22 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	785 (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)	1532.6	N.A.	7.8
FM - Front-Medium (30-60)	11144.1	N.A.	56.7
FH - Front-High (60-80)	3568.1	N.A.	18.1
FVH - Front-Very High (80-90)	77.5	N.A.	0.4
BL - Back-Low (0-30)	827.1	N.A.	4.2
BM - Back-Medium (30-60)	2061.3	N.A.	10.5
BH - Back-High (60-80)	417.2	N.A.	2.1
BVH - Back-Very High (80-90)	14.0	N.A.	0.1
UL - Uplight-Low (90-100)	5.9	N.A.	0.0
UH - Uplight-High (100-180)	19.6	N.A.	0.1
Total	19667.4	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>
<b>0.0</b>	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014
<b>2.5</b>	2051	2057	2057	2073	2074	2078	2084	2047	2036	2007
<b>5.0</b>	2059	2070	2120	2107	2164	2027	2022	1977	1920	1900
<b>7.5</b>	2106	2139	2193	2084	2119	2032	2067	2141	2084	2017
<b>10.0</b>	2229	2231	2307	2143	2206	2235	2258	2226	2166	2098
<b>12.5</b>	2419	2542	2427	2375	2436	2399	2424	2384	2370	2372
<b>15.0</b>	2610	2726	2669	2732	2806	2679	2702	2648	2675	2595
<b>17.5</b>	2782	2893	2845	2905	2985	3117	2979	3035	3083	2936
<b>20.0</b>	3168	3244	3247	3192	3289	3331	3461	3399	3472	3433
<b>22.5</b>	3438	3463	3545	3631	3662	3673	3967	3974	4122	4084
<b>25.0</b>	3961	3842	3939	4019	4115	4075	4496	4812	4853	4829
<b>27.5</b>	4510	4639	4680	4515	4584	4696	5060	5813	6086	5872
<b>30.0</b>	5236	5144	5072	5118	5195	5419	5847	7050	7363	7229
<b>32.5</b>	6167	6245	5885	5653	5870	6099	6969	8599	9026	8879
<b>35.0</b>	7152	7005	6760	6592	6499	7078	8024	9825	10679	10397
<b>37.5</b>	8158	8052	7666	7321	7529	7785	8972	10739	11385	11501
<b>40.0</b>	8564	8563	8396	8298	8403	8685	9708	11079	11893	11812
<b>42.5</b>	8677	8680	8648	8719	9099	9459	10619	11341	12092	12235
<b>45.0</b>	8410	8445	8487	8782	9451	10277	11567	12077	12651	13029
<b>47.5</b>	7763	7800	7942	8366	9260	10558	12510	13275	13576	14100
<b>50.0</b>	6849	6814	7039	7502	8584	10333	13398	14628	14666	15287
<b>52.5</b>	5627	5672	5918	6445	7557	9606	14045	16057	16139	17166
<b>55.0</b>	4322	4368	4617	5232	6278	8344	14092	17253	17819	19040
<b>57.5</b>	3081	3135	3362	3894	4928	6875	13200	17539	18973	20228
<b>60.0</b>	2148	2192	2381	2759	3552	5073	11490	16707	19171	20060
<b>62.5</b>	1555	1565	1725	1940	2383	3445	9329	14573	18044	18410
<b>65.0</b>	1099	1114	1228	1467	1726	2218	7016	12114	15306	15308
<b>67.5</b>	747	763	818	1032	1324	1519	4747	9176	12174	11823
<b>70.0</b>	457	467	489	684	965	1124	2893	6294	8313	7639
<b>72.5</b>	345	344	348	429	663	824	1600	3838	4825	3723
<b>75.0</b>	233	241	239	281	447	588	862	2341	2352	1435
<b>77.5</b>	158	159	162	174	284	415	516	1345	1244	794
<b>80.0</b>	103	108	115	109	156	265	325	736	785	554
<b>82.5</b>	96	96	92	87	94	134	191	375	512	430
<b>85.0</b>	72	72	68	69	74	94	112	181	263	259
<b>87.5</b>	45	43	40	40	43	57	69	91	93	94
<b>90.0</b>	14	14	12	9	9	10	9	9	13	10
<b>92.5</b>	6	6	5	5	3	0	0	0	1	1
<b>95.0</b>	4	3	4	4	2	0	0	0	0	0
<b>97.5</b>	4	3	4	4	2	0	0	0	0	0
<b>100.0</b>	4	3	4	4	2	0	0	0	0	0
<b>102.5</b>	4	3	4	4	2	0	0	0	0	0
<b>105.0</b>	4	3	4	4	2	0	0	0	0	0
<b>107.5</b>	4	4	4	4	2	0	0	0	0	0
<b>110.0</b>	5	5	5	5	3	1	0	0	0	0
<b>112.5</b>	5	5	5	5	3	1	0	0	0	0
<b>115.0</b>	7	6	6	5	3	1	0	0	1	1
<b>117.5</b>	8	7	6	6	4	2	0	0	1	2
<b>120.0</b>	9	8	7	6	4	2	0	1	2	2
<b>122.5</b>	10	10	8	7	5	3	0	2	3	3
<b>125.0</b>	12	12	9	7	5	3	1	2	4	4
<b>127.5</b>	13	13	10	8	6	4	2	3	4	5
<b>130.0</b>	13	13	10	9	6	4	2	3	5	5

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**CANDELA TABULATION - (Cont.)**

132.5	14	14	12	9	6	5	2	3	5	6
135.0	13	12	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	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014
2.5	2013	2002	2013	2008	1992	1993	2005	2006	1979	1972
5.0	1927	1912	1877	1866	1876	1870	1839	1849	1817	1778
7.5	2010	1999	1957	1959	1861	1770	1633	1657	1628	1680
10.0	2081	2026	1967	1993	1778	1719	1646	1599	1518	1590
12.5	2250	2213	2179	2050	1834	1719	1633	1683	1704	1784
15.0	2490	2428	2293	2068	1812	1779	1788	1868	1930	1891
17.5	2818	2649	2505	2202	1878	1868	2006	2058	2041	2029
20.0	3206	3061	2820	2342	1990	2091	2103	2147	2027	1841
22.5	3838	3479	3280	2656	2198	2248	2195	1958	1600	1329
25.0	4552	4242	3843	2890	2550	2403	1997	1474	1076	795
27.5	5572	4995	4532	3247	2807	2353	1559	956	651	538
30.0	6849	6040	5311	3639	3034	2096	1109	633	519	471
32.5	8087	7237	6145	4016	3149	1724	747	537	464	434
35.0	9548	8441	7074	4439	3052	1294	623	483	433	407
37.5	10718	9647	7848	4747	2756	893	561	450	393	365
40.0	11160	10223	8206	4996	2346	695	509	416	350	318
42.5	11769	10729	8521	5023	1691	615	463	373	300	261
45.0	12600	11431	8936	4866	1021	552	414	320	246	208
47.5	13637	12272	9346	4405	750	489	356	262	199	165
50.0	14845	13096	9639	3651	642	433	293	207	159	128
52.5	16294	13702	9726	2677	581	378	235	161	126	95
55.0	17789	13831	9432	1803	536	317	183	120	94	69
57.5	18205	13180	8565	1291	493	259	137	87	67	43
60.0	17379	11806	7307	1069	476	210	101	58	39	19
62.5	15089	9896	5835	885	457	168	71	30	22	10
65.0	12173	7545	4233	676	399	131	47	15	15	7
67.5	8675	5227	2668	483	302	97	30	12	13	7
70.0	5167	3147	1496	336	205	64	24	14	13	8
72.5	2246	1565	820	247	130	40	24	18	12	6
75.0	960	826	509	177	73	31	27	19	10	6
77.5	606	566	330	116	47	32	28	21	9	6

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**CANDELA TABULATION - (Cont.)**

80.0	477	402	215	66	37	31	29	22	10	6
82.5	344	245	128	31	29	29	28	21	10	7
85.0	197	125	60	17	21	27	27	20	9	7
87.5	72	32	9	8	16	24	23	17	9	6
90.0	3	3	4	7	15	22	21	15	8	6
92.5	0	2	4	7	14	20	19	12	7	6
95.0	0	2	3	6	10	15	14	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	2014	2014
2.5	1954	1916
5.0	1751	1731
7.5	1665	1632
10.0	1628	1550
12.5	1822	1772
15.0	2034	1999
17.5	2122	2061
20.0	1814	1729
22.5	1216	1199
25.0	700	683

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**CANDELA TABULATION - (Cont.)**

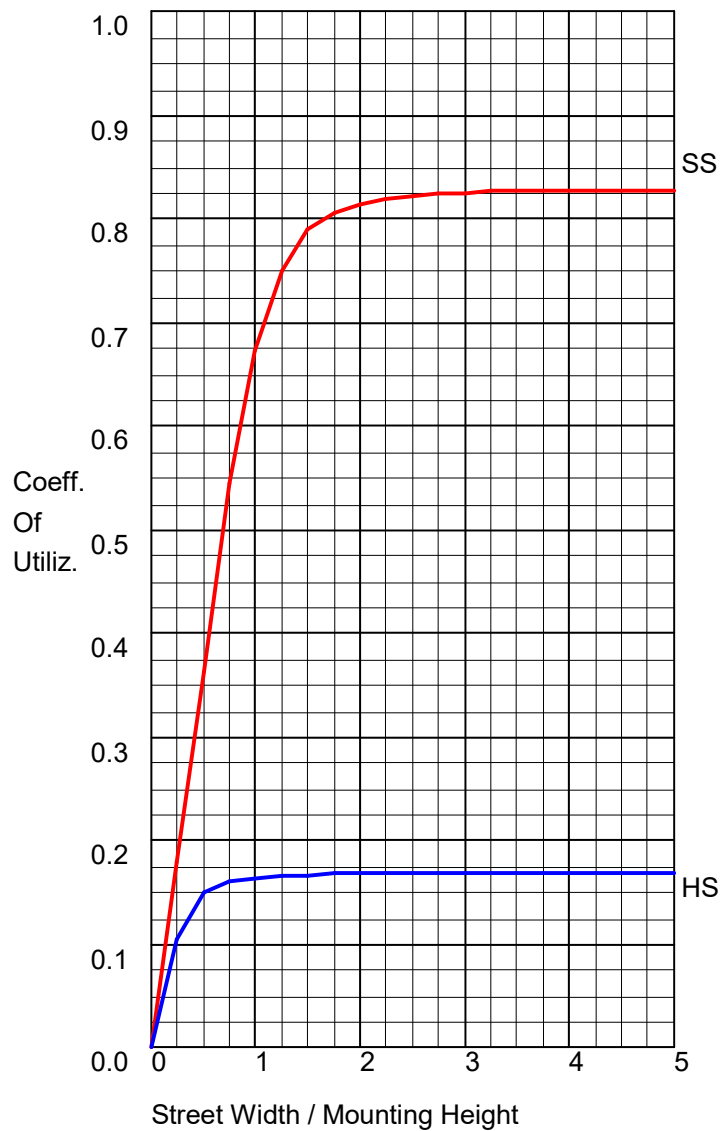
27.5	518	515
30.0	464	463
32.5	440	439
35.0	405	405
37.5	363	366
40.0	310	308
42.5	248	244
45.0	197	196
47.5	153	152
50.0	116	115
52.5	85	85
55.0	58	57
57.5	31	30
60.0	14	14
62.5	6	6
65.0	3	4
67.5	4	4
70.0	4	4
72.5	3	2
75.0	2	2
77.5	3	2
80.0	3	3
82.5	3	3
85.0	3	4
87.5	3	3
90.0	3	3
92.5	3	3
95.0	3	2
97.5	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.)**

<b>167.5</b>	<b>1</b>	<b>0</b>
<b>170.0</b>	<b>1</b>	<b>0</b>
<b>172.5</b>	<b>1</b>	<b>0</b>
<b>175.0</b>	<b>1</b>	<b>0</b>
<b>177.5</b>	<b>1</b>	<b>0</b>
<b>180.0</b>	<b>1</b>	<b>1</b>

### COEFFICIENTS OF UTILIZATION

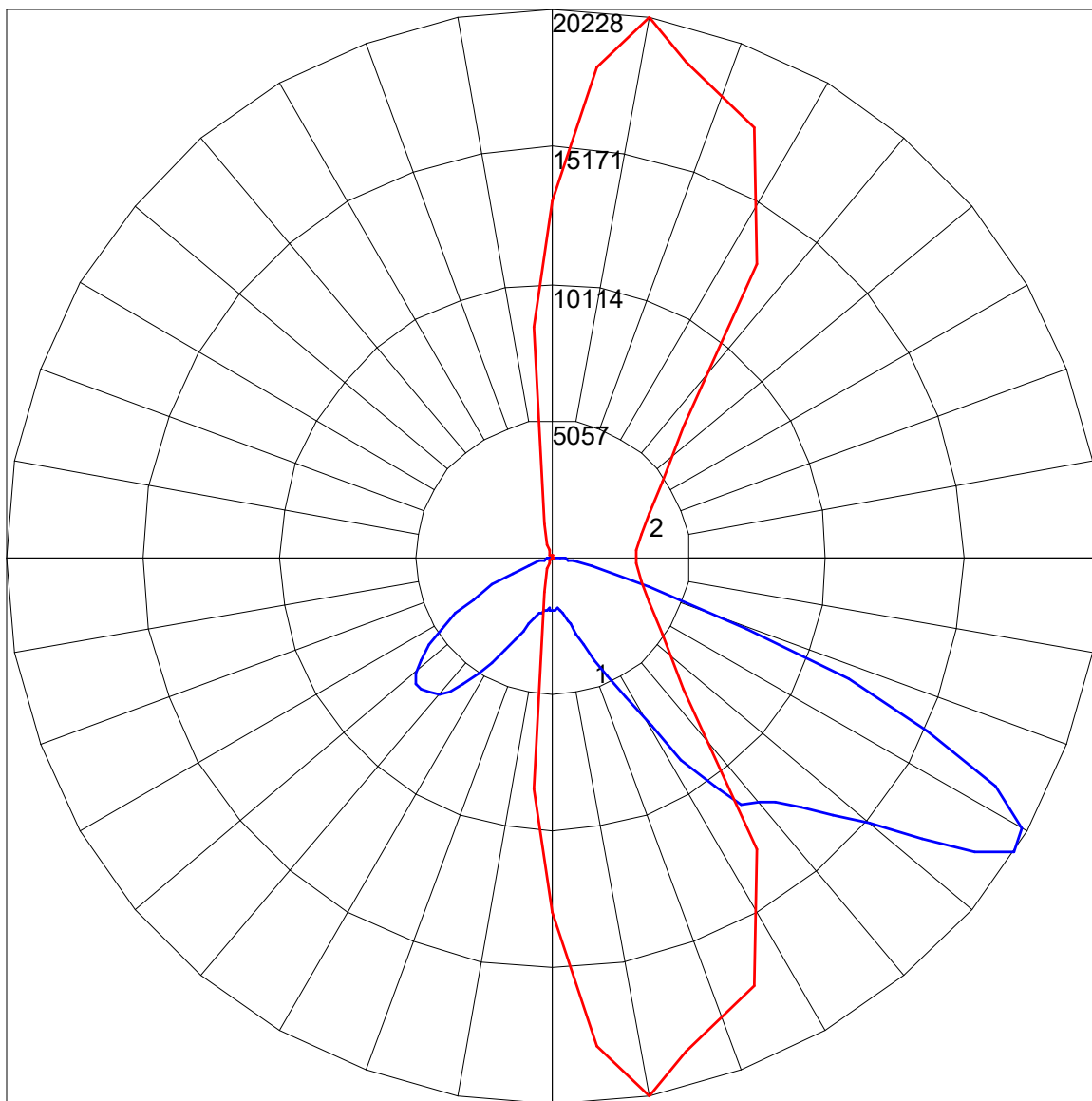


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	16322.3	83.0
Downward House Side	3319.6	16.9
Downward Total	19641.9	99.9
Upward Street Side	8.3	0.0
Upward House Side	17.2	0.1
Upward Total	25.5	0.1
Total Flux	19667.4	100.0

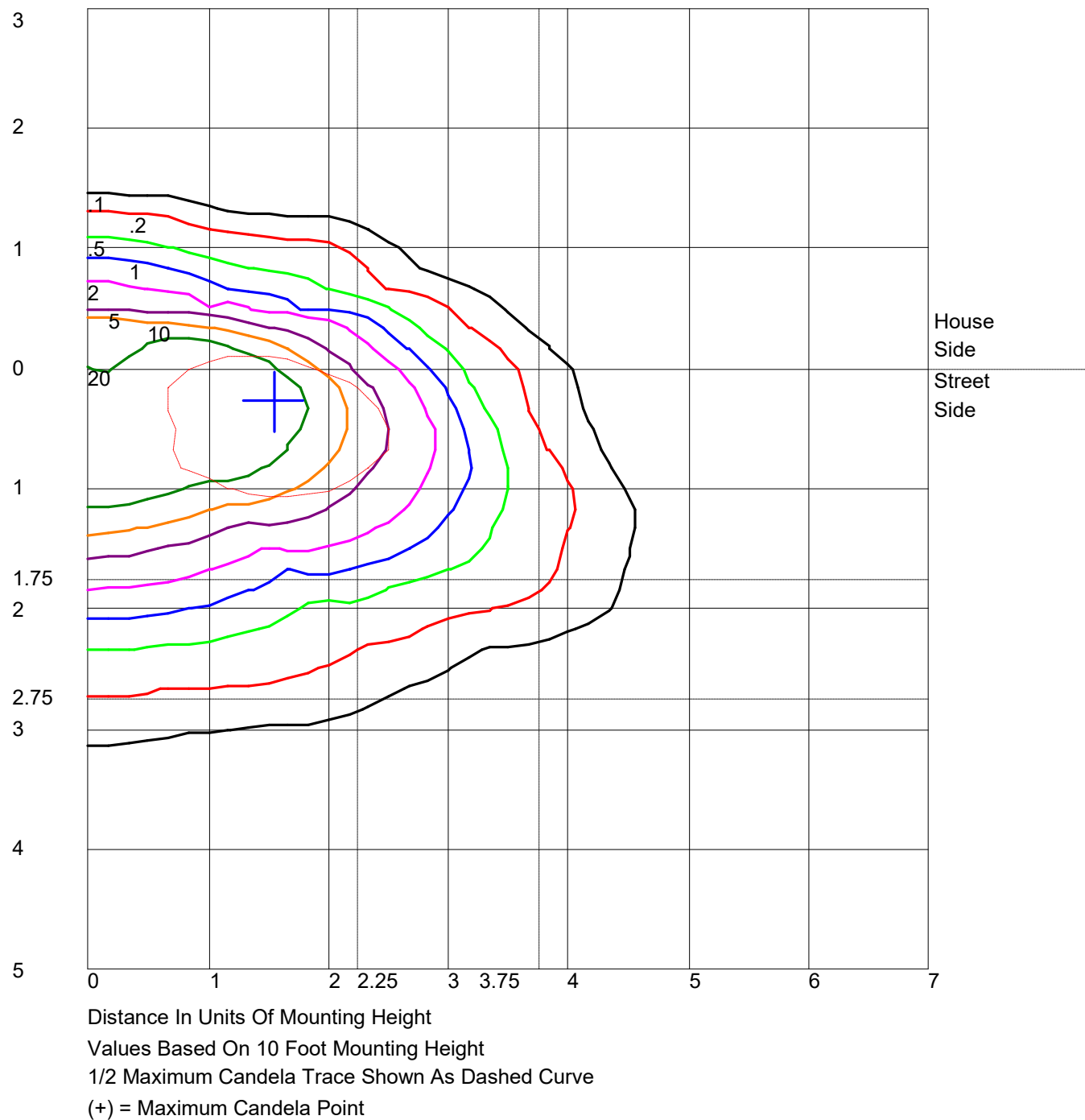


POLAR GRAPH

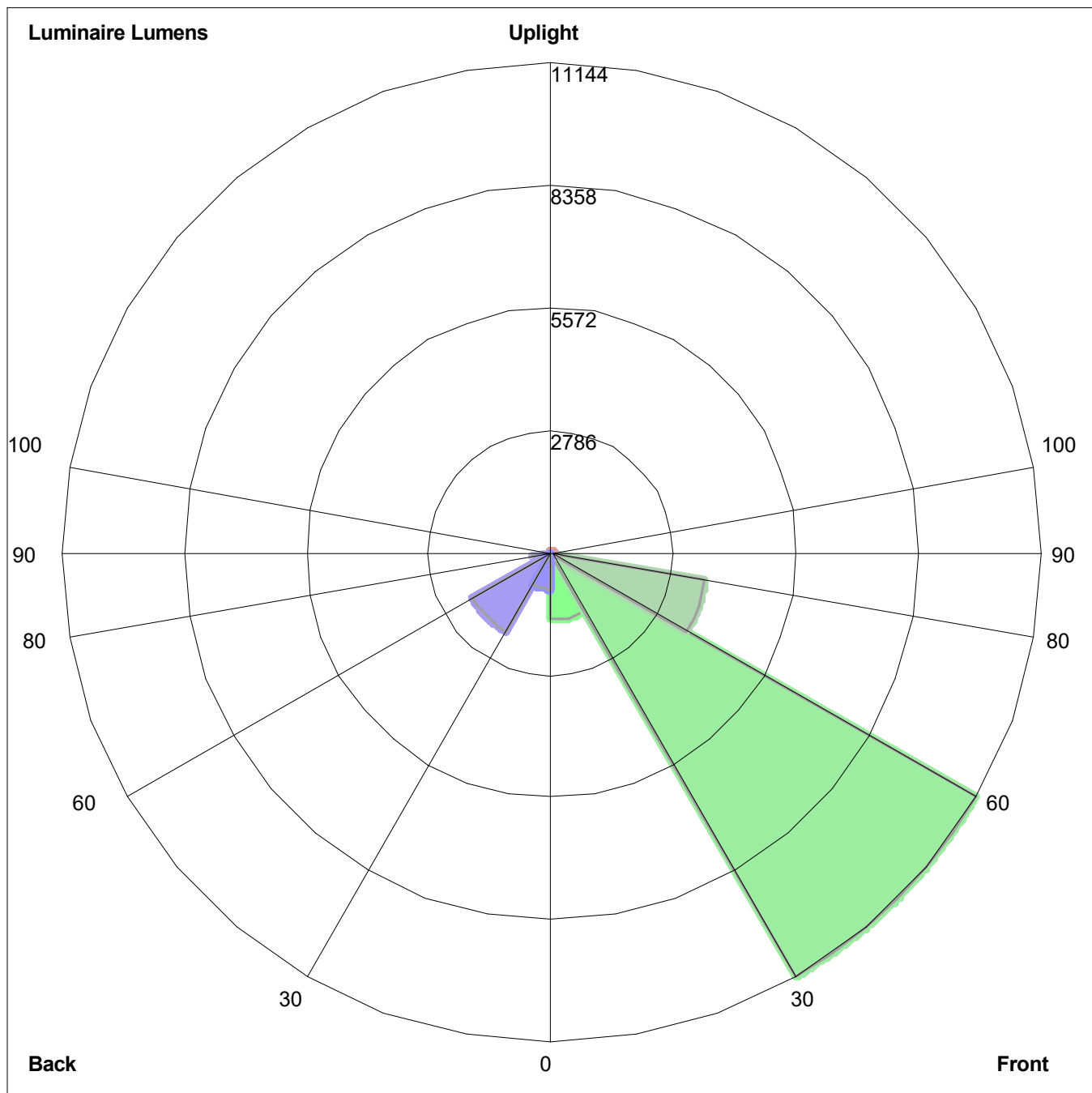


Maximum Candela = 20228 Located At Horizontal Angle = 80, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1532.6, Medium=11144.1, High=3568.1, Very High=77.5  
Back: Low=827.1, Medium=2061.3, High=417.2, Very High=14.0  
Uplight: Low=5.9, High=19.6

BUG Rating : B2-U2-G2