



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-5W-LED-25L-30-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11752
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/24/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-5W-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	14558
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	227
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10475
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	10475
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 67.5V
Maximum Candela At 90 Degrees Vertical	19 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	469 (3.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	813.9	N.A.	5.6
FM - Front-Medium (30-60)	6602.4	N.A.	45.4
FH - Front-High (60-80)	4249.9	N.A.	29.2
FVH - Front-Very High (80-90)	52.6	N.A.	0.4
BL - Back-Low (0-30)	462.3	N.A.	3.2
BM - Back-Medium (30-60)	1730.1	N.A.	11.9
BH - Back-High (60-80)	606.9	N.A.	4.2
BVH - Back-Very High (80-90)	9.9	N.A.	0.1
UL - Uplight-Low (90-100)	7.5	N.A.	0.1
UH - Uplight-High (100-180)	22.1	N.A.	0.2
Total	14557.6	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	848	848	848	848	848	848	848	848	848	848
2.5	866	870	877	882	875	872	873	870	858	850
5.0	867	884	893	892	918	864	864	862	841	823
7.5	909	924	955	880	896	872	876	876	910	899
10.0	1003	996	1036	941	976	989	1016	984	953	967
12.5	1150	1203	1123	1108	1157	1126	1141	1131	1086	1065
15.0	1303	1368	1317	1376	1401	1330	1342	1341	1269	1229
17.5	1467	1522	1487	1553	1604	1658	1650	1557	1497	1466
20.0	1780	1805	1769	1815	1887	1927	1915	1894	1761	1670
22.5	2029	2028	2087	2173	2192	2229	2286	2270	2079	1965
25.0	2318	2254	2379	2511	2633	2611	2632	2649	2443	2211
27.5	2669	2790	2909	2869	3036	3106	3109	3035	2807	2578
30.0	3159	3090	3168	3386	3398	3607	3647	3510	3257	2929
32.5	3776	3784	3695	3720	3973	4052	4040	4056	3760	3346
35.0	4347	4274	4188	4296	4377	4592	4477	4566	4197	3861
37.5	4861	4912	4736	4729	4907	5050	4946	5047	4683	4108
40.0	5282	5333	5242	5265	5372	5461	5431	5469	5111	4582
42.5	5606	5624	5565	5580	5742	5759	5766	5838	5442	4867
45.0	5877	5884	5826	5922	6073	6138	6167	6098	5721	5106
47.5	6096	6142	6142	6191	6347	6413	6393	6352	5978	5402
50.0	6298	6373	6421	6387	6556	6630	6618	6612	6262	5758
52.5	6514	6550	6648	6572	6780	6889	6912	6896	6584	6033
55.0	6714	6807	6929	6936	7084	7363	7409	7399	7031	6423
57.5	7026	7098	7286	7339	7667	8077	8113	8004	7333	6619
60.0	7003	7061	7398	7596	8108	8724	8709	8510	7480	6704
62.5	6267	6414	6985	7495	8434	9339	9296	8946	7546	6633
65.0	4932	5099	5849	6686	8416	9952	9851	9231	7415	6429
67.5	2693	2899	3762	5132	7428	10356	10475	9560	7365	6034
70.0	579	601	1005	2588	5338	9106	9587	8810	6136	4505
72.5	267	273	330	586	2035	5898	6518	6107	4003	2689
75.0	166	169	187	243	500	2038	2767	2942	1996	1218
77.5	86	88	96	125	210	428	544	1047	954	573
80.0	62	62	65	73	103	157	179	297	469	325
82.5	54	55	57	63	75	90	95	132	244	258
85.0	42	43	45	52	63	75	78	94	135	209
87.5	29	29	32	35	43	51	53	64	95	119
90.0	15	15	15	14	14	14	12	8	11	19
92.5	3	3	3	4	5	5	5	5	5	5
95.0	2	2	2	2	3	5	5	5	5	5
97.5	2	2	2	2	3	3	3	4	4	5
100.0	2	2	2	2	3	3	3	3	4	4
102.5	2	2	2	2	2	3	3	3	3	4
105.0	2	3	2	2	3	3	3	3	3	4
107.5	3	3	2	3	3	3	3	3	3	4
110.0	4	3	3	3	3	3	3	3	4	4
112.5	4	4	4	3	4	4	4	3	4	5
115.0	5	5	4	4	4	4	4	4	4	5
117.5	5	5	5	4	4	4	5	4	5	5
120.0	6	5	5	4	5	5	5	5	5	5
122.5	6	6	5	5	5	5	5	5	5	5
125.0	7	7	6	5	5	5	5	5	5	6
127.5	7	8	7	6	5	5	5	5	5	6
130.0	8	8	7	6	5	5	5	5	5	6

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CANDELA TABULATION - (Cont.)

132.5	8	8	7	6	5	5	5	5	5	6
135.0	8	7	6	5	5	5	5	5	5	6
137.5	3	4	3	3	4	4	3	3	4	5
140.0	0	1	1	1	2	2	2	2	2	3
142.5	0	1	1	1	2	2	2	2	2	3
145.0	0	1	1	1	2	2	2	2	2	3
147.5	0	0	1	1	2	2	2	2	2	3
150.0	1	1	1	2	2	2	2	2	2	3
152.5	0	1	1	2	2	2	2	2	2	3
155.0	0	1	1	1	2	1	2	2	2	3
157.5	1	1	1	1	1	1	2	2	2	2
160.0	1	1	1	1	1	1	1	2	2	2
162.5	1	1	1	1	1	1	1	1	2	2
165.0	0	1	1	1	1	1	1	1	1	2
167.5	0	1	1	1	1	1	1	1	1	2
170.0	1	1	1	1	1	1	1	1	1	2
172.5	1	1	1	1	2	1	1	1	1	2
175.0	1	1	1	1	2	1	1	1	1	1
177.5	1	1	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	848	848	848	848	848	848	848	848	848	848
2.5	846	845	847	844	837	829	833	835	830	817
5.0	819	814	796	793	798	794	772	776	764	751
7.5	852	859	839	837	797	748	709	716	689	703
10.0	906	882	866	885	775	755	714	689	670	678
12.5	1002	987	962	905	807	766	734	746	741	761
15.0	1111	1084	1038	948	847	823	839	854	840	822
17.5	1290	1224	1167	1041	926	941	963	935	894	888
20.0	1491	1416	1346	1167	1063	1084	1065	1019	992	954
22.5	1787	1624	1534	1321	1245	1250	1185	1134	1047	1000
25.0	1998	1876	1734	1467	1507	1424	1332	1210	1124	956
27.5	2272	2105	1977	1700	1767	1608	1458	1280	1045	794
30.0	2619	2388	2229	1998	2051	1880	1668	1211	799	552
32.5	2869	2691	2476	2332	2352	2162	1707	920	519	375
35.0	3273	2979	2779	2683	2669	2443	1522	615	347	277
37.5	3618	3344	3127	3089	3005	2541	1103	404	263	229
40.0	3860	3609	3374	3494	3363	2320	706	294	218	196
42.5	4139	3856	3610	3822	3646	1814	437	240	187	167
45.0	4448	4163	3913	4172	3757	1167	313	200	161	141
47.5	4702	4440	4224	4550	3543	714	241	169	136	113
50.0	5058	4798	4594	4962	2966	470	191	142	110	85
52.5	5403	5202	5008	5408	2159	329	157	115	84	61
55.0	5741	5555	5532	5773	1377	233	130	85	61	41
57.5	5989	5683	5854	5750	932	165	103	61	40	23
60.0	6088	5724	5945	5099	755	132	77	40	23	9
62.5	5961	5637	5923	4000	707	120	56	23	13	5
65.0	5701	5409	5703	2630	711	156	38	13	10	4
67.5	5184	4932	5242	1470	695	225	26	11	9	5
70.0	3762	3562	3752	723	534	292	27	10	10	6
72.5	2118	1967	2088	261	229	283	23	12	8	4
75.0	923	838	872	143	97	115	20	10	3	2
77.5	405	365	360	87	47	55	15	7	1	1

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CANDELA TABULATION - (Cont.)

80.0	246	213	175	53	32	29	11	7	0	1
82.5	187	156	113	33	25	19	11	7	0	1
85.0	134	103	60	20	18	16	11	7	0	2
87.5	77	41	17	15	16	15	12	8	0	2
90.0	14	5	12	15	18	17	14	9	1	2
92.5	6	5	11	15	19	18	15	10	2	3
95.0	5	4	9	15	17	16	13	9	2	3
97.5	5	4	7	11	15	14	10	7	2	3
100.0	5	5	6	8	11	11	8	6	3	2
102.5	4	5	6	7	8	8	7	5	3	2
105.0	4	5	5	6	7	7	6	5	3	2
107.5	4	5	5	6	7	7	6	5	4	3
110.0	5	5	5	6	7	7	6	5	4	3
112.5	5	5	6	6	7	7	6	5	4	3
115.0	5	5	6	7	7	7	6	5	4	3
117.5	5	6	6	7	7	7	6	5	5	4
120.0	5	6	6	7	8	8	7	6	5	4
122.5	6	6	7	8	8	8	7	6	5	5
125.0	6	7	7	8	8	8	8	7	6	5
127.5	7	7	8	8	8	8	8	7	6	5
130.0	7	7	7	8	8	8	7	7	6	6
132.5	7	7	7	8	8	8	7	6	6	5
135.0	6	7	7	7	7	8	7	6	5	5
137.5	5	5	5	6	6	6	5	5	5	4
140.0	4	4	4	5	5	5	5	4	3	2
142.5	3	4	4	4	5	5	4	4	3	2
145.0	3	4	4	4	5	5	4	3	3	2
147.5	3	4	4	4	5	5	4	3	2	2
150.0	3	4	4	4	4	5	4	3	2	2
152.5	3	4	4	4	4	4	4	3	2	1
155.0	3	3	4	4	4	4	4	3	2	1
157.5	3	3	3	4	4	4	4	3	2	1
160.0	3	3	3	3	4	4	3	2	1	1
162.5	2	3	3	3	3	3	3	2	1	0
165.0	2	2	3	3	3	3	3	2	1	0
167.5	2	2	2	3	3	3	3	2	1	0
170.0	2	2	2	3	3	3	2	1	1	0
172.5	2	2	2	3	3	3	2	1	1	0
175.0	2	2	2	2	2	2	2	1	1	0
177.5	2	2	2	2	2	2	2	1	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	848	848
2.5	810	807
5.0	732	730
7.5	686	679
10.0	691	659
12.5	770	753
15.0	843	806
17.5	892	855
20.0	953	909
22.5	946	919
25.0	872	852

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CANDELA TABULATION - (Cont.)

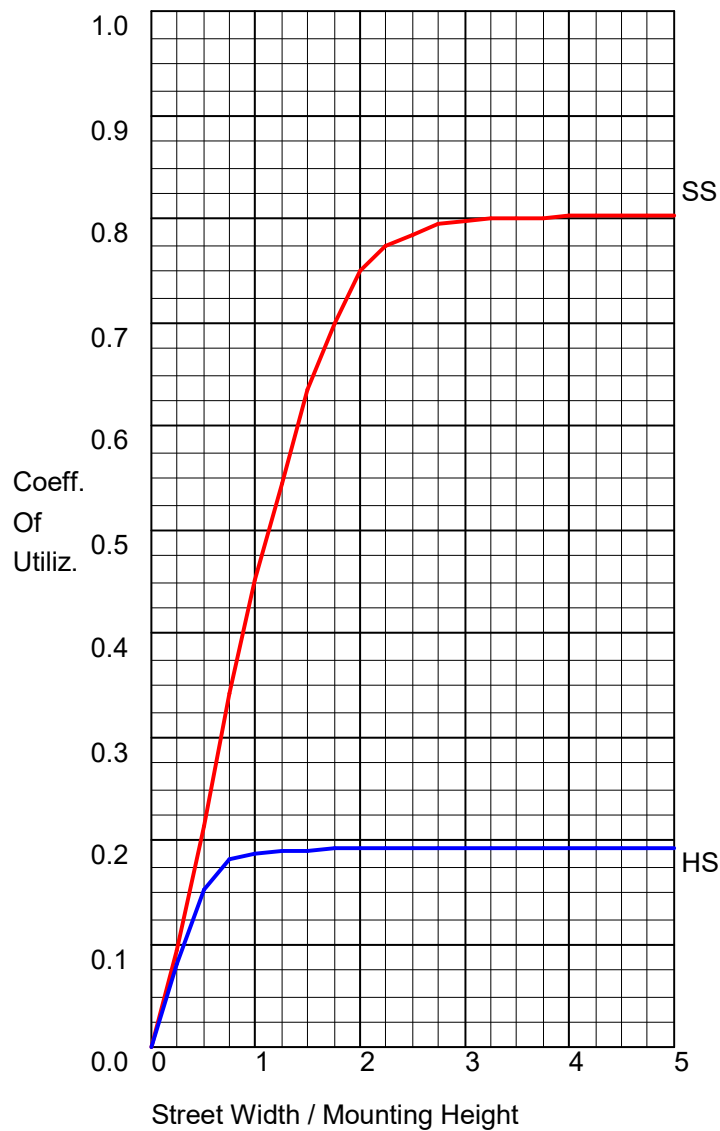
27.5	681	651
30.0	461	448
32.5	328	319
35.0	258	257
37.5	219	217
40.0	188	189
42.5	160	161
45.0	132	130
47.5	103	103
50.0	76	75
52.5	53	52
55.0	33	32
57.5	15	15
60.0	5	5
62.5	2	1
65.0	1	0
67.5	3	2
70.0	4	4
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	1	0
97.5	1	0
100.0	1	1
102.5	1	1
105.0	1	1
107.5	2	1
110.0	2	2
112.5	2	2
115.0	3	3
117.5	3	3
120.0	4	4
122.5	4	4
125.0	5	5
127.5	5	5
130.0	5	5
132.5	5	5
135.0	5	5
137.5	3	3
140.0	2	1
142.5	1	1
145.0	1	0
147.5	1	0
150.0	1	1
152.5	1	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	1	1

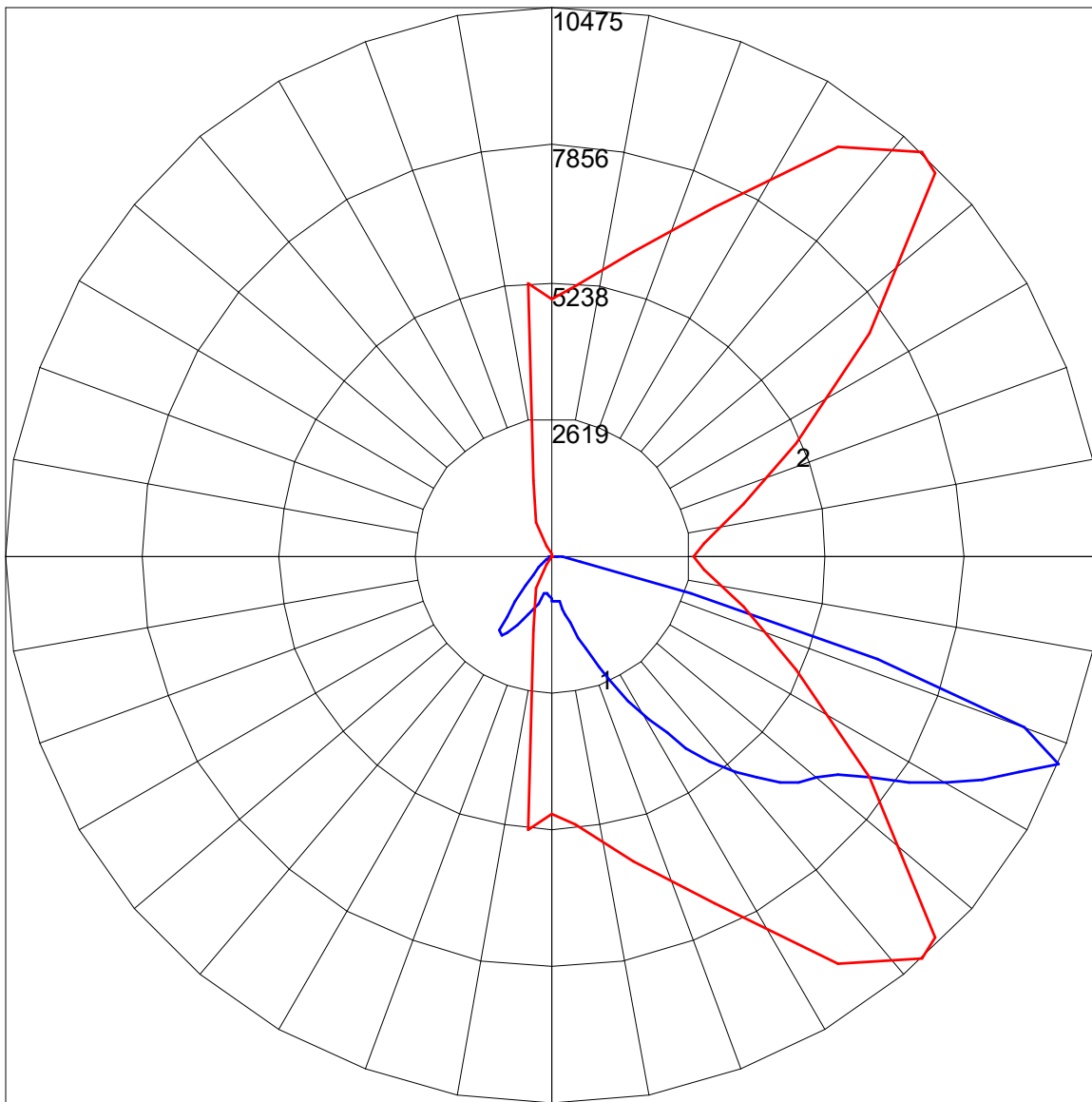
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

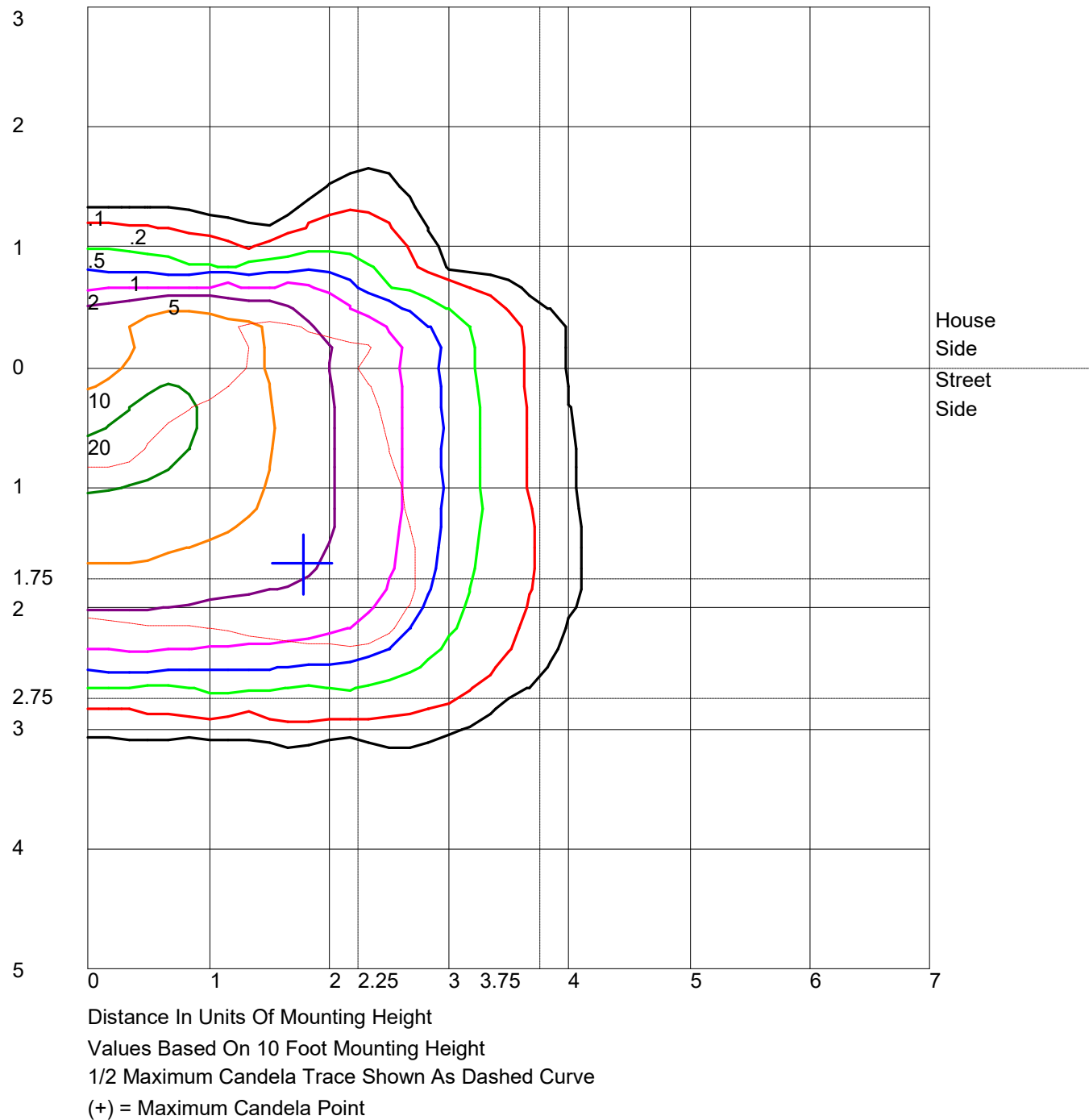
	Lumens	Percent Of Luminaire
Downward Street Side	11718.9	80.5
Downward House Side	2809.2	19.3
Downward Total	14528.1	99.8
Upward Street Side	12.1	0.1
Upward House Side	17.5	0.1
Upward Total	29.6	0.2
Total Flux	14557.7	100.0

POLAR GRAPH

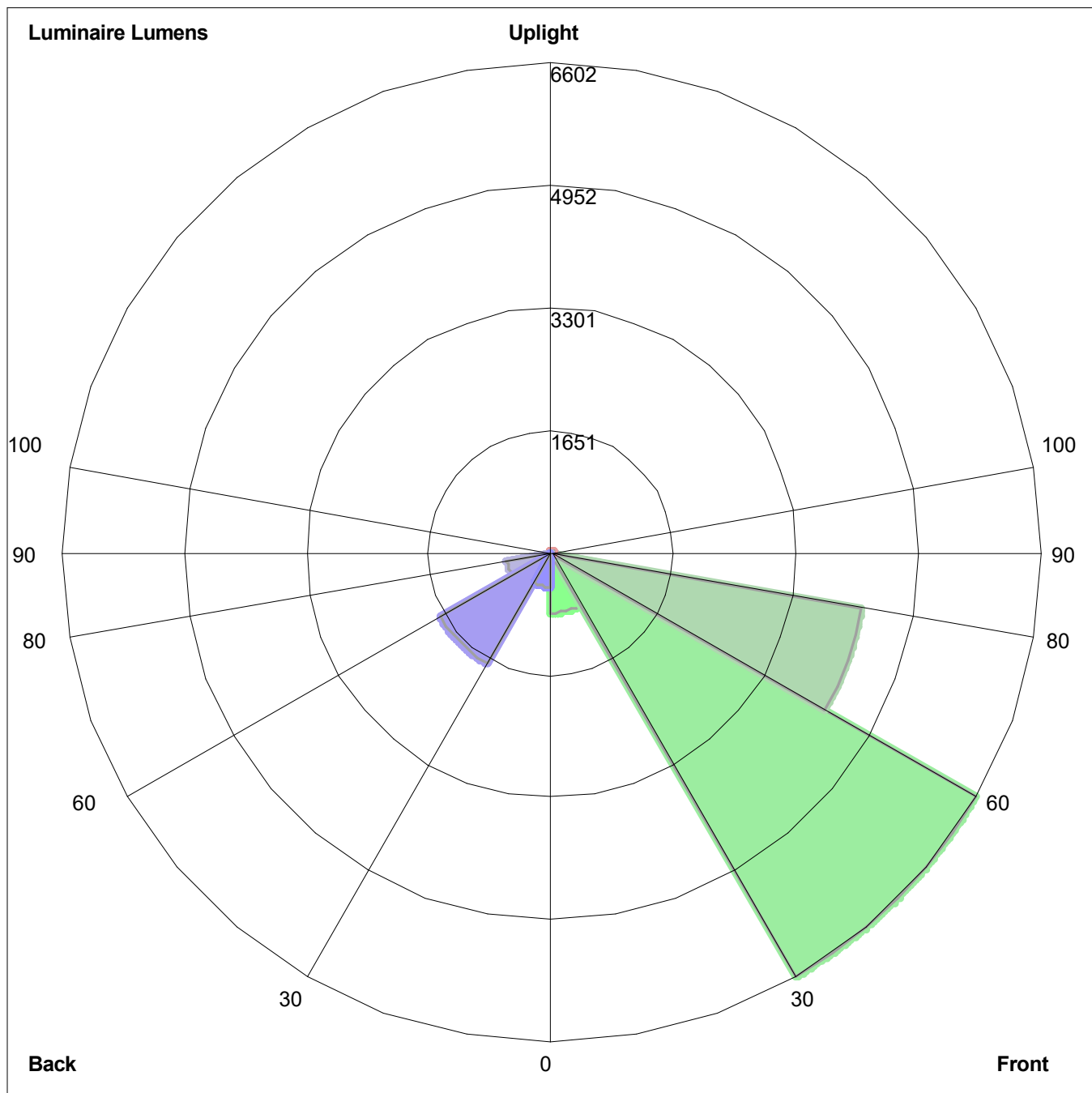


Maximum Candela = 10475 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=813.9, Medium=6602.4, High=4249.9, Very High=52.6
Back: Low=462.3, Medium=1730.1, High=606.9, Very High=9.9
Uplight: Low=7.5, High=22.1

BUG Rating : B2-U2-G2