



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-5W-LED-18L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11684

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/06/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-5W-LED-18L-40

[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 VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18416
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	148.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9577
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	9577
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	17 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	937 (5.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	562.1	N.A.	3.1
FM - Front-Medium (30-60)	4108.1	N.A.	22.3
FH - Front-High (60-80)	4442.1	N.A.	24.1
FVH - Front-Very High (80-90)	78.8	N.A.	0.4
BL - Back-Low (0-30)	562.1	N.A.	3.1
BM - Back-Medium (30-60)	4108.1	N.A.	22.3
BH - Back-High (60-80)	4442.1	N.A.	24.1
BVH - Back-Very High (80-90)	78.8	N.A.	0.4
UL - Uplight-Low (90-100)	11.6	N.A.	0.1
UH - Uplight-High (100-180)	21.8	N.A.	0.1
Total	18415.6	N.A.	100.0
BUG Rating	B4-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>85</u>
0.0	911	911	911	911	911	911	911	911	911	911
2.5	907	909	909	907	913	909	907	902	899	903
5.0	859	852	857	874	870	862	860	858	842	852
7.5	856	843	841	842	837	833	857	870	893	873
10.0	849	850	851	824	847	857	884	888	914	916
12.5	959	940	934	906	917	904	921	952	961	968
15.0	1046	1018	999	1019	1024	1006	1003	1010	1044	1063
17.5	1121	1115	1087	1108	1136	1149	1118	1102	1135	1144
20.0	1226	1245	1214	1244	1258	1262	1271	1200	1235	1276
22.5	1342	1330	1368	1383	1403	1432	1441	1369	1373	1433
25.0	1460	1463	1503	1532	1591	1605	1655	1609	1511	1584
27.5	1655	1640	1702	1751	1792	1834	1859	1869	1714	1751
30.0	1792	1806	1844	1949	2020	2096	2146	2106	1943	1915
32.5	2069	2063	2085	2148	2275	2390	2444	2375	2187	2099
35.0	2257	2287	2300	2426	2550	2721	2743	2662	2442	2295
37.5	2571	2576	2570	2625	2858	3004	3047	2957	2739	2517
40.0	2760	2769	2847	2928	3151	3355	3352	3248	3018	2693
42.5	2937	2959	3017	3165	3476	3604	3638	3502	3233	2866
45.0	3125	3153	3195	3387	3696	3838	3833	3717	3442	3035
47.5	3320	3354	3405	3603	3879	4015	4020	3929	3669	3248
50.0	3538	3573	3631	3797	4052	4194	4208	4144	3900	3485
52.5	3746	3787	3855	3998	4251	4381	4402	4373	4130	3724
55.0	3986	4032	4100	4235	4448	4597	4621	4606	4390	3990
57.5	4264	4308	4406	4536	4710	4895	4886	4910	4695	4292
60.0	4564	4636	4754	4904	5128	5359	5310	5312	5095	4680
62.5	4923	4970	5097	5335	5745	6110	5962	5861	5546	5026
65.0	5165	5252	5443	5801	6465	7046	6756	6382	5940	5319
67.5	5007	5121	5503	6173	7279	8174	7645	6935	6277	5489
70.0	3849	3949	4564	5637	7841	9577	8386	6741	5391	4369
72.5	2186	2248	2838	3948	6143	8546	6847	4666	3230	2455
75.0	759	778	1028	1844	3791	5879	4205	2392	1414	1062
77.5	372	377	451	670	1435	2594	1811	1038	628	460
80.0	172	173	198	295	580	937	742	446	271	239
82.5	116	116	123	156	234	318	245	209	171	171
85.0	77	78	80	98	131	149	137	122	107	109
87.5	43	42	45	52	63	63	57	52	47	45
90.0	11	11	14	14	15	17	15	13	12	9
92.5	8	9	10	11	14	17	15	14	12	9
95.0	8	8	9	10	12	15	14	13	11	8
97.5	7	7	8	8	10	12	12	10	9	7
100.0	5	5	6	7	8	9	9	8	7	5
102.5	5	5	5	6	7	7	7	7	6	4
105.0	4	4	5	6	6	6	6	6	5	4
107.5	4	4	5	5	5	6	5	5	5	4
110.0	4	4	5	5	5	5	5	5	5	4
112.5	4	4	5	6	6	5	5	5	5	4
115.0	5	5	6	6	6	6	6	6	5	5
117.5	5	5	6	6	7	7	6	6	5	5
120.0	5	6	6	7	7	7	7	6	6	5
122.5	6	6	6	7	8	7	7	6	6	6
125.0	6	6	7	8	8	8	7	7	6	6
127.5	6	6	7	7	8	7	7	6	6	6
130.0	6	6	7	7	7	7	7	6	6	6

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CANDELA TABULATION - (Cont.)

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

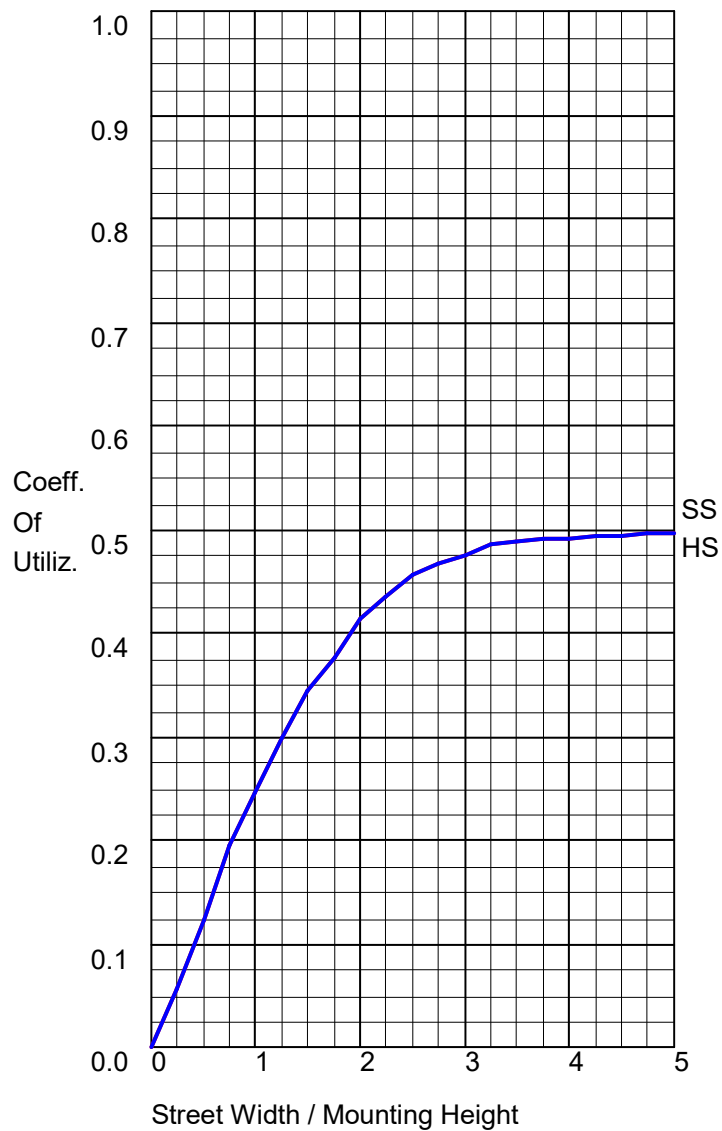
	<u>90</u>
0.0	911
2.5	911
5.0	858
7.5	881
10.0	912
12.5	988
15.0	1068
17.5	1157
20.0	1265
22.5	1404
25.0	1585
27.5	1739
30.0	1935
32.5	2108
35.0	2316
37.5	2527
40.0	2701
42.5	2867
45.0	3045
47.5	3234
50.0	3445
52.5	3659
55.0	3909
57.5	4193
60.0	4551
62.5	4841
65.0	5083
67.5	5240
70.0	4151
72.5	2242
75.0	982
77.5	450

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CANDELA TABULATION - (Cont.)

80.0	239
82.5	169
85.0	104
87.5	42
90.0	7
92.5	7
95.0	6
97.5	5
100.0	4
102.5	4
105.0	3
107.5	4
110.0	4
112.5	4
115.0	5
117.5	5
120.0	6
122.5	6
125.0	6
127.5	6
130.0	6
132.5	6
135.0	5
137.5	3
140.0	1
142.5	0
145.0	0
147.5	1
150.0	0
152.5	0
155.0	0
157.5	0
160.0	0
162.5	0
165.0	0
167.5	0
170.0	0
172.5	0
175.0	0
177.5	0
180.0	1

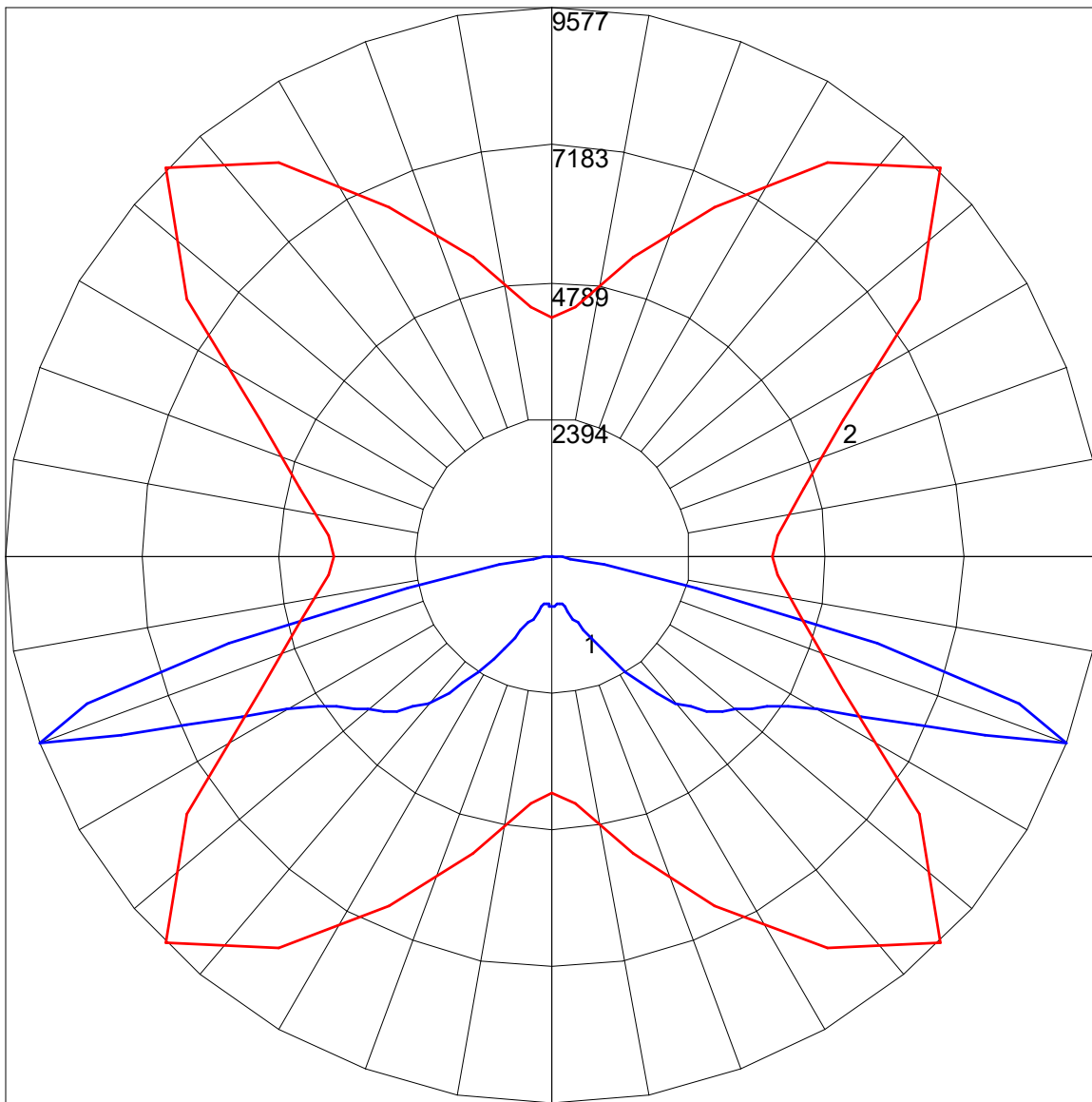
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

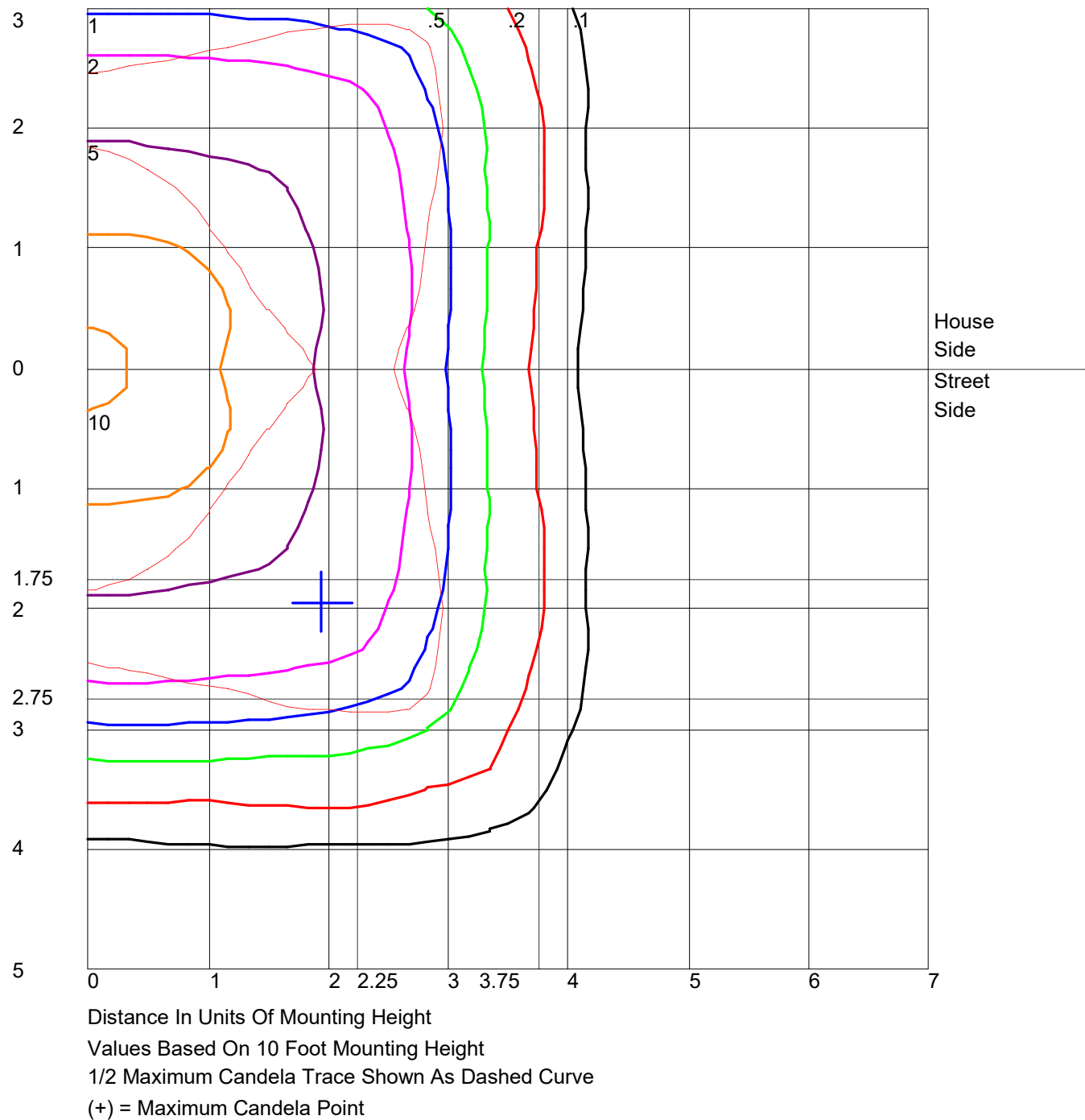
	Lumens	Percent Of Luminaire
Downward Street Side	9191.2	49.9
Downward House Side	9191.2	49.9
Downward Total	18382.4	99.8
Upward Street Side	16.7	0.1
Upward House Side	16.7	0.1
Upward Total	33.4	0.2
Total Flux	18415.8	100.0

POLAR GRAPH

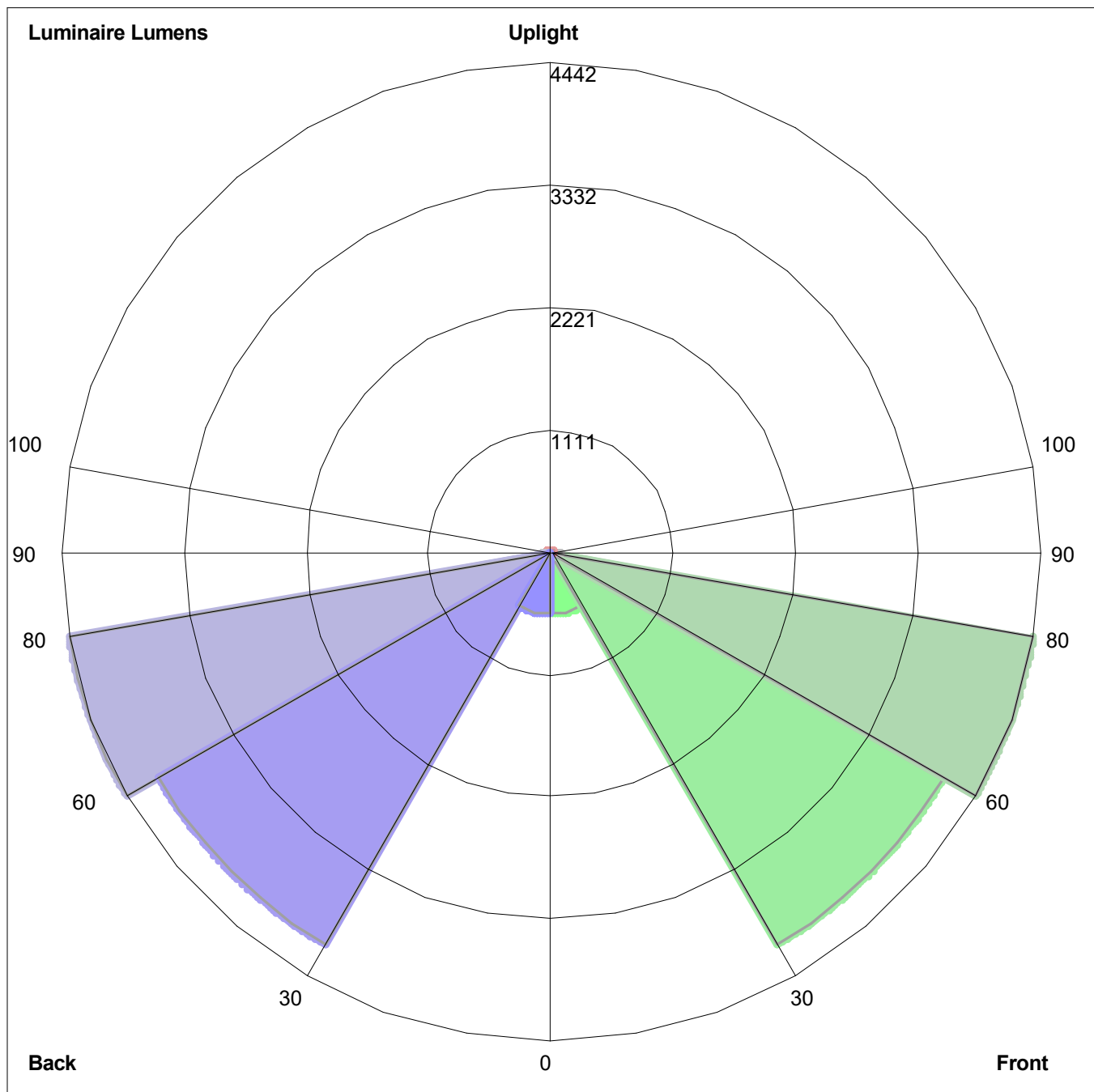


Maximum Candela = 9577 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=562.1, Medium=4108.1, High=4442.1, Very High=78.8
Back: Low=562.1, Medium=4108.1, High=4442.1, Very High=78.8
Uplight: Low=11.6, High=21.8

BUG Rating : B4-U2-G2