



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-5W-LED-18L-50.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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-5W-LED-18L-50
[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	19278
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	148.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10026
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	10026
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	18 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	981 (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)	588.5	N.A.	3.1
FM - Front-Medium (30-60)	4300.8	N.A.	22.3
FH - Front-High (60-80)	4650.4	N.A.	24.1
FVH - Front-Very High (80-90)	82.5	N.A.	0.4
BL - Back-Low (0-30)	588.5	N.A.	3.1
BM - Back-Medium (30-60)	4300.8	N.A.	22.3
BH - Back-High (60-80)	4650.4	N.A.	24.1
BVH - Back-Very High (80-90)	82.5	N.A.	0.4
UL - Uplight-Low (90-100)	12.2	N.A.	0.1
UH - Uplight-High (100-180)	21.8	N.A.	0.1
Total	19278.4	N.A.	100.0
BUG Rating	B4-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	85
0.0	954	954	954	954	954	954	954	954	954	954
2.5	950	952	952	950	956	952	950	944	941	945
5.0	899	892	897	915	911	902	900	898	881	892
7.5	896	883	880	881	876	872	897	911	935	914
10.0	889	890	891	863	887	897	925	930	957	959
12.5	1004	984	978	948	960	946	964	997	1006	1013
15.0	1095	1066	1046	1067	1072	1053	1050	1057	1093	1113
17.5	1174	1167	1138	1160	1189	1203	1170	1154	1188	1198
20.0	1283	1303	1271	1302	1317	1321	1331	1256	1293	1336
22.5	1405	1392	1432	1448	1469	1499	1509	1433	1437	1500
25.0	1528	1532	1573	1604	1666	1680	1733	1684	1582	1658
27.5	1733	1717	1782	1833	1876	1920	1946	1957	1794	1833
30.0	1876	1891	1930	2040	2115	2194	2247	2205	2034	2005
32.5	2166	2160	2183	2249	2382	2502	2559	2486	2290	2197
35.0	2363	2394	2408	2540	2670	2849	2872	2787	2557	2403
37.5	2692	2697	2691	2748	2992	3145	3190	3096	2867	2635
40.0	2889	2899	2981	3065	3299	3512	3509	3400	3160	2819
42.5	3075	3098	3158	3313	3639	3773	3809	3666	3385	3000
45.0	3272	3301	3345	3546	3869	4018	4013	3891	3603	3177
47.5	3476	3511	3565	3772	4061	4203	4209	4113	3841	3400
50.0	3704	3741	3801	3975	4242	4391	4405	4338	4083	3648
52.5	3922	3965	4036	4186	4450	4586	4608	4578	4324	3899
55.0	4173	4221	4292	4434	4657	4813	4838	4822	4596	4177
57.5	4464	4510	4613	4749	4931	5125	5115	5140	4915	4493
60.0	4778	4853	4977	5134	5369	5610	5559	5561	5334	4899
62.5	5154	5203	5336	5585	6014	6397	6242	6136	5806	5262
65.0	5407	5498	5698	6073	6768	7376	7073	6681	6219	5568
67.5	5242	5361	5761	6463	7620	8557	8004	7260	6571	5746
70.0	4030	4134	4778	5901	8209	10026	8779	7057	5644	4574
72.5	2289	2353	2971	4133	6431	8947	7168	4885	3381	2570
75.0	795	814	1076	1930	3969	6155	4402	2504	1480	1112
77.5	389	395	472	701	1502	2716	1896	1087	657	482
80.0	180	181	207	309	607	981	777	467	284	250
82.5	121	121	129	163	245	333	256	219	179	179
85.0	81	82	84	103	137	156	143	128	112	114
87.5	45	44	47	54	66	66	60	54	49	47
90.0	12	12	15	15	16	18	16	14	13	9
92.5	8	9	10	12	15	18	16	15	13	9
95.0	8	8	9	10	13	16	15	14	12	8
97.5	7	7	8	8	10	13	13	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. Horizontal Angles

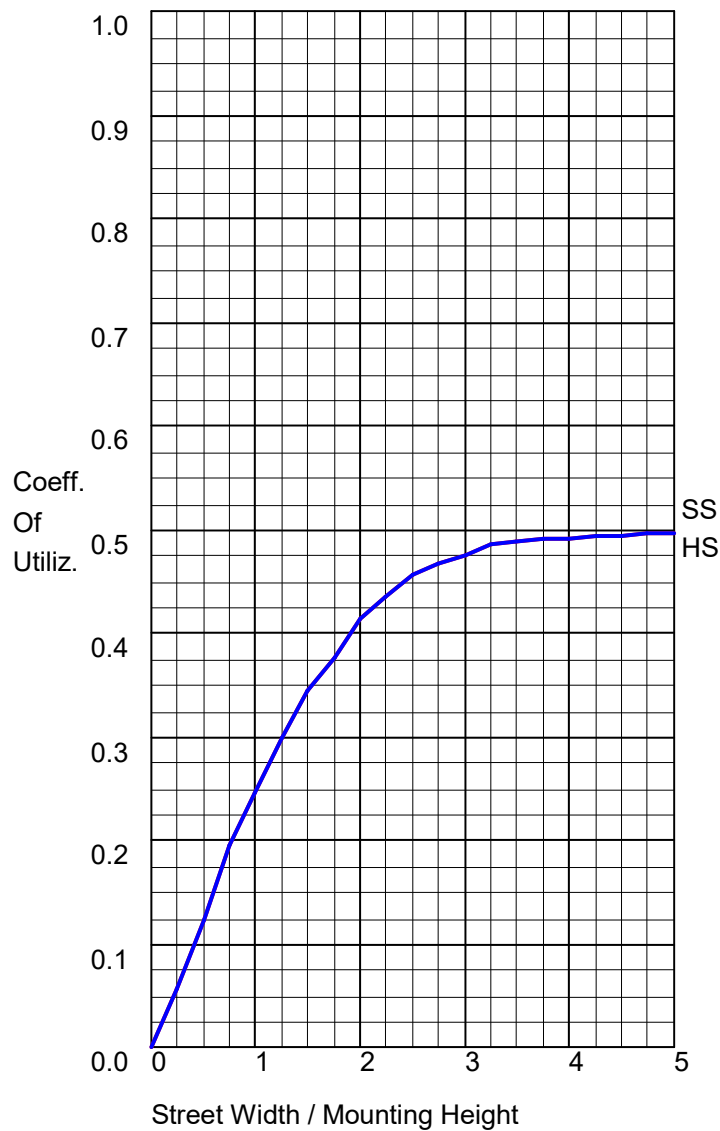
	90
0.0	954
2.5	954
5.0	898
7.5	922
10.0	955
12.5	1034
15.0	1118
17.5	1211
20.0	1324
22.5	1470
25.0	1659
27.5	1821
30.0	2026
32.5	2207
35.0	2425
37.5	2646
40.0	2828
42.5	3001
45.0	3188
47.5	3386
50.0	3607
52.5	3831
55.0	4092
57.5	4390
60.0	4764
62.5	5068
65.0	5321
67.5	5486
70.0	4346
72.5	2347
75.0	1028
77.5	471

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CANDELA TABULATION - (Cont.)

80.0	250
82.5	177
85.0	109
87.5	44
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

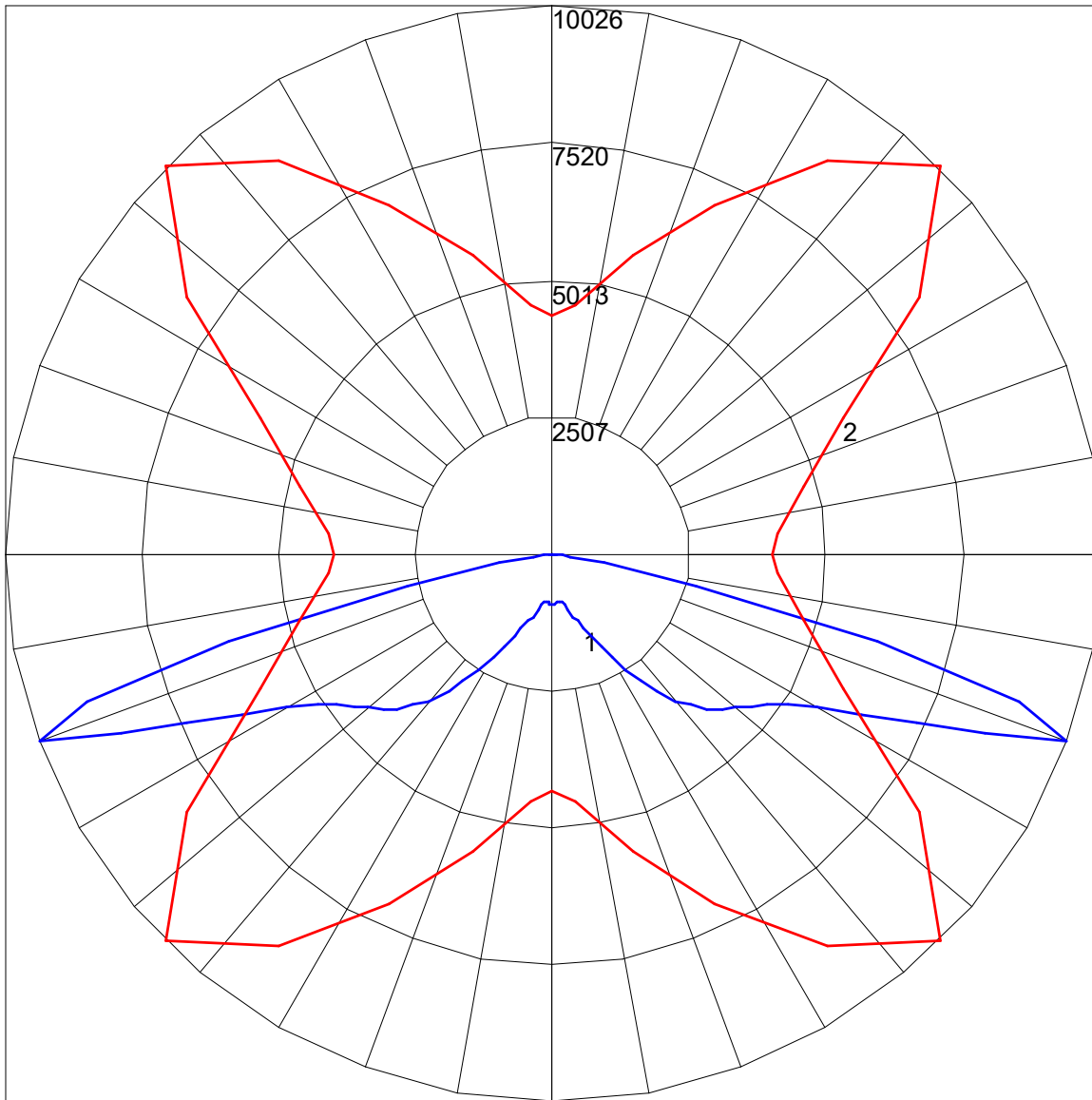
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

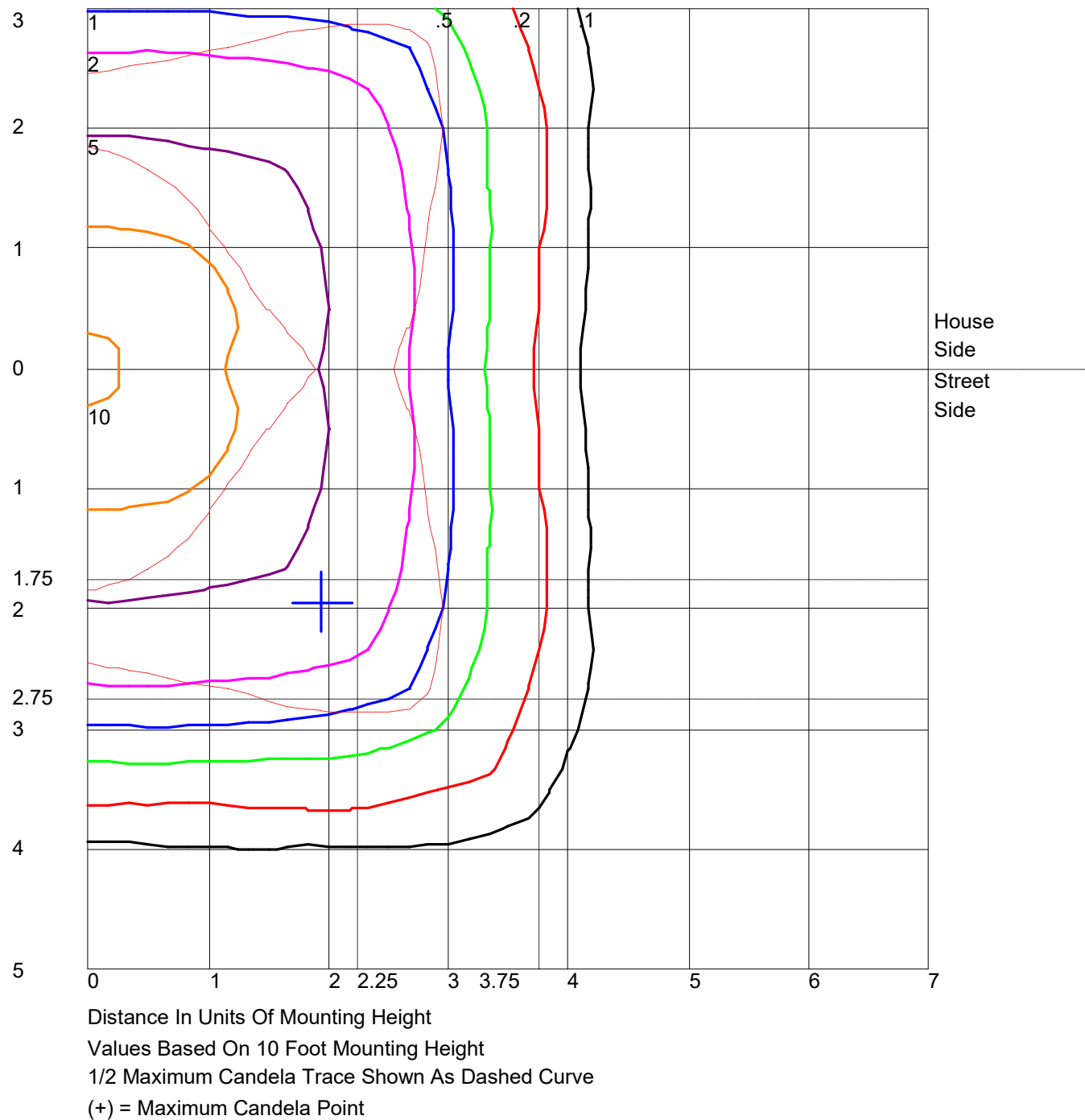
	Lumens	Percent Of Luminaire
Downward Street Side	9622.2	49.9
Downward House Side	9622.2	49.9
Downward Total	19244.4	99.8
Upward Street Side	17.0	0.1
Upward House Side	17.0	0.1
Upward Total	34.0	0.2
Total Flux	19278.4	100.0

POLAR GRAPH

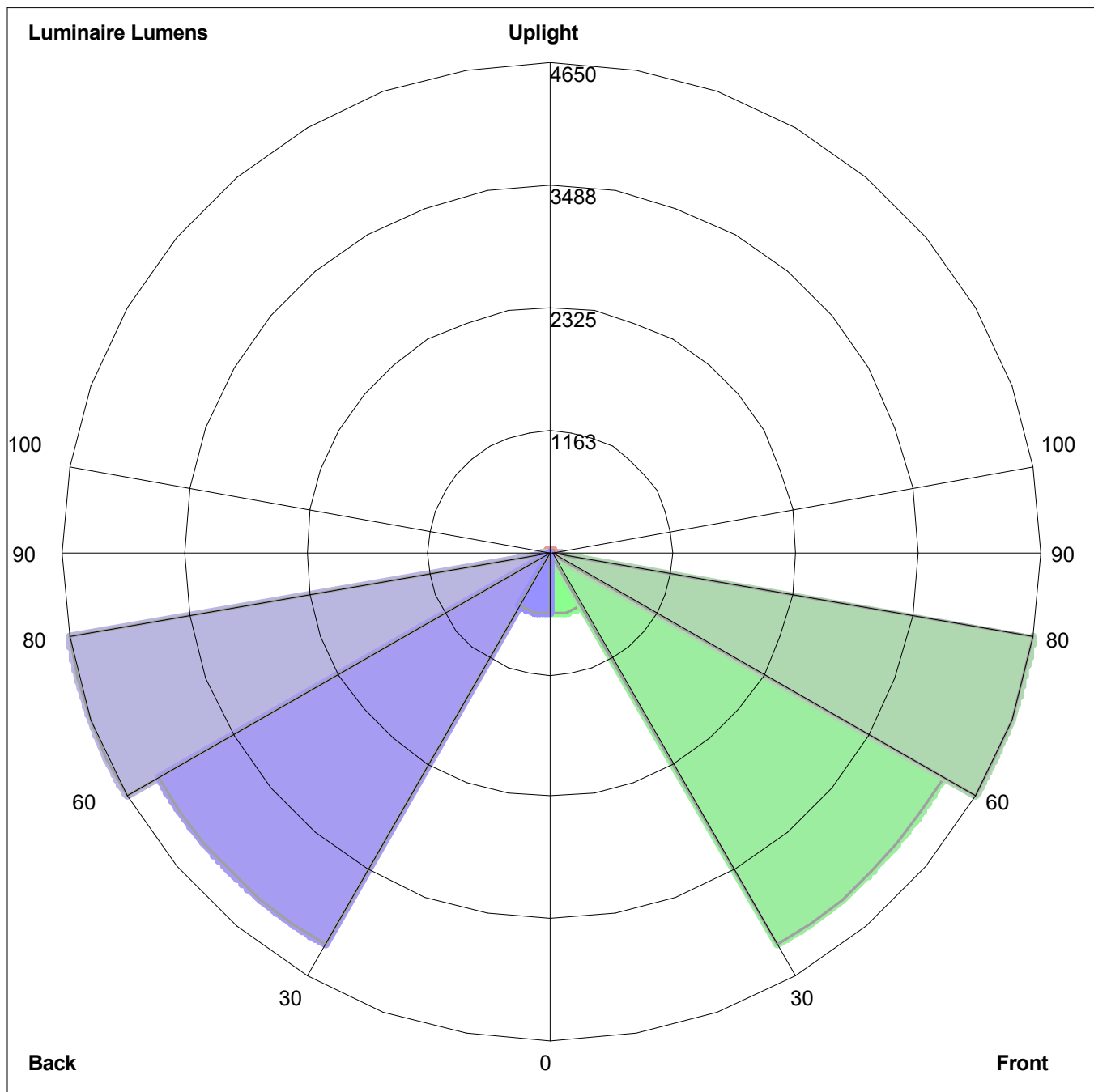


Maximum Candela = 10026 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=588.5, Medium=4300.8, High=4650.4, Very High=82.5
Back: Low=588.5, Medium=4300.8, High=4650.4, Very High=82.5
Uplight: Low=12.2, High=21.8

BUG Rating : B4-U2-G2