



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-18L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11683
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/06/20
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMEN CATEGORY] LXM4-PT-5W-LED-18L-50
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] 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	19341
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	148.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10091
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	10091
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	1010 (5.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	590.9	N.A.	3.1
FM - Front-Medium (30-60)	4308.5	N.A.	22.3
FH - Front-High (60-80)	4672.2	N.A.	24.2
FVH - Front-Very High (80-90)	83.0	N.A.	0.4
BL - Back-Low (0-30)	590.9	N.A.	3.1
BM - Back-Medium (30-60)	4308.5	N.A.	22.3
BH - Back-High (60-80)	4672.2	N.A.	24.2
BVH - Back-Very High (80-90)	83.0	N.A.	0.4
UL - Uplight-Low (90-100)	12.0	N.A.	0.1
UH - Uplight-High (100-180)	20.3	N.A.	0.1
Total	19341.5	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	959	959	959	959	959	959	959	959	959	959
2.5	955	957	956	957	960	958	955	950	946	951
5.0	905	898	901	920	915	910	908	902	886	897
7.5	901	886	886	887	881	875	900	919	940	918
10.0	901	896	894	866	892	902	932	937	964	964
12.5	1013	992	980	951	962	952	969	1007	1009	1018
15.0	1100	1073	1049	1070	1077	1056	1060	1062	1100	1119
17.5	1178	1172	1144	1164	1193	1209	1175	1158	1203	1204
20.0	1290	1308	1278	1303	1322	1327	1332	1261	1299	1343
22.5	1406	1398	1436	1457	1482	1506	1512	1433	1439	1501
25.0	1542	1532	1580	1626	1670	1685	1737	1689	1585	1666
27.5	1731	1720	1786	1849	1883	1927	1947	1954	1795	1845
30.0	1882	1895	1946	2050	2129	2198	2244	2210	2037	2020
32.5	2160	2168	2196	2264	2395	2517	2565	2487	2291	2207
35.0	2366	2404	2425	2539	2674	2866	2891	2793	2574	2411
37.5	2692	2716	2686	2753	2996	3158	3211	3105	2884	2637
40.0	2886	2913	2982	3064	3297	3524	3513	3432	3162	2820
42.5	3075	3103	3158	3327	3639	3774	3819	3686	3388	3000
45.0	3268	3311	3348	3556	3874	4025	4023	3901	3609	3181
47.5	3473	3515	3584	3771	4071	4204	4220	4120	3840	3405
50.0	3702	3745	3816	3977	4254	4396	4420	4340	4083	3663
52.5	3915	3970	4042	4200	4457	4601	4620	4573	4325	3918
55.0	4165	4226	4298	4446	4661	4821	4843	4825	4604	4187
57.5	4456	4528	4621	4738	4922	5131	5134	5136	4931	4492
60.0	4795	4853	4975	5137	5355	5612	5565	5560	5348	4905
62.5	5140	5202	5331	5598	5991	6376	6246	6159	5808	5267
65.0	5406	5515	5699	6076	6747	7360	7098	6717	6222	5580
67.5	5256	5391	5778	6487	7647	8588	8024	7284	6594	5785
70.0	4064	4194	4764	5937	8212	10091	8819	7146	5678	4570
72.5	2314	2406	2979	4019	6510	9059	7265	4978	3456	2578
75.0	799	835	1078	1899	4050	6262	4492	2572	1481	1091
77.5	393	395	478	719	1539	2787	1890	1112	644	493
80.0	182	182	212	316	620	1010	779	479	287	253
82.5	121	120	130	165	249	330	255	213	182	181
85.0	81	81	84	103	136	154	143	128	111	113
87.5	45	45	46	55	63	66	60	56	49	45
90.0	12	13	15	15	16	18	16	14	13	9
92.5	8	8	10	12	15	17	16	14	13	9
95.0	8	8	9	10	13	16	15	14	12	8
97.5	7	7	8	8	10	13	12	10	9	6
100.0	6	6	6	7	8	9	9	8	7	5
102.5	5	5	6	6	7	7	7	7	6	4
105.0	4	4	5	5	6	6	6	6	5	4
107.5	4	4	5	5	5	5	5	5	5	4
110.0	4	4	5	5	5	5	5	5	5	4
112.5	4	4	5	6	6	6	5	5	5	4
115.0	4	4	5	6	6	6	6	5	5	4
117.5	5	5	5	6	6	6	6	5	5	5
120.0	5	5	6	6	7	7	6	6	5	5
122.5	5	5	6	7	7	7	6	6	6	5
125.0	5	5	6	7	7	7	6	6	6	6
127.5	5	5	6	7	7	7	6	6	6	6
130.0	5	5	6	7	7	7	6	6	6	6

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CANDELA TABULATION - (Cont.)

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

Vert. Horizontal Angles

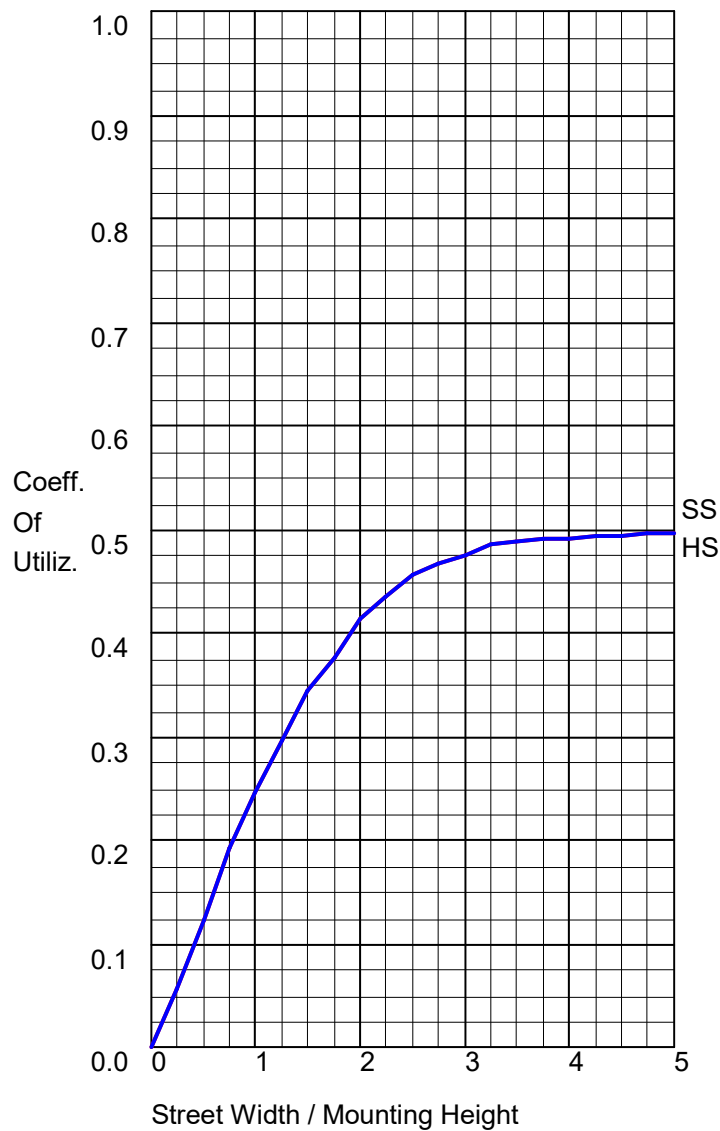
	90
0.0	959
2.5	960
5.0	904
7.5	927
10.0	960
12.5	1040
15.0	1123
17.5	1218
20.0	1330
22.5	1477
25.0	1676
27.5	1838
30.0	2033
32.5	2212
35.0	2429
37.5	2657
40.0	2832
42.5	3006
45.0	3189
47.5	3393
50.0	3627
52.5	3839
55.0	4090
57.5	4384
60.0	4752
62.5	5074
65.0	5340
67.5	5518
70.0	4323
72.5	2383
75.0	1044
77.5	477

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CANDELA TABULATION - (Cont.)

80.0	252
82.5	177
85.0	110
87.5	42
90.0	7
92.5	6
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	4
117.5	5
120.0	5
122.5	5
125.0	5
127.5	6
130.0	6
132.5	6
135.0	5
137.5	2
140.0	0
142.5	0
145.0	0
147.5	0
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	0

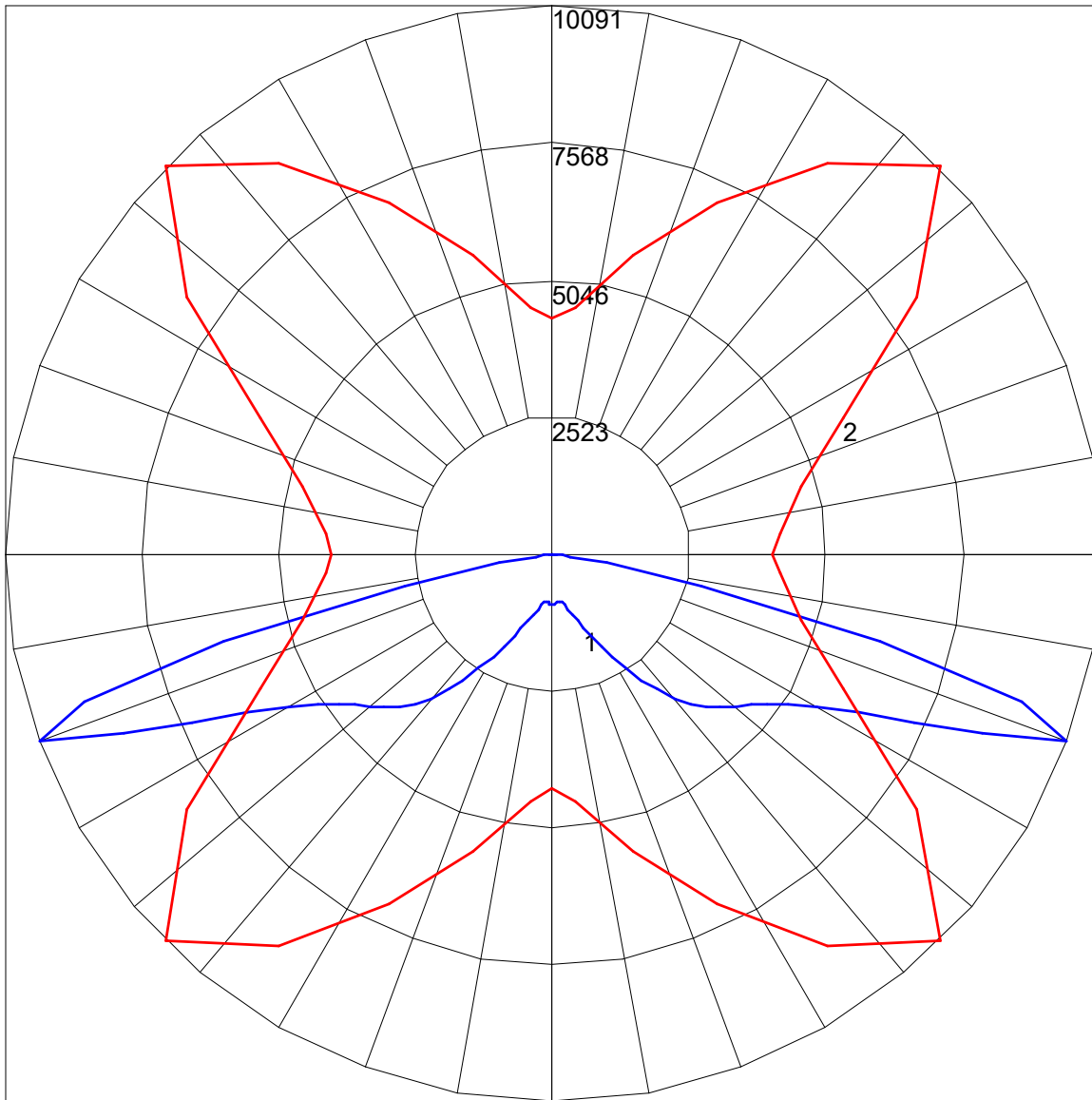
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

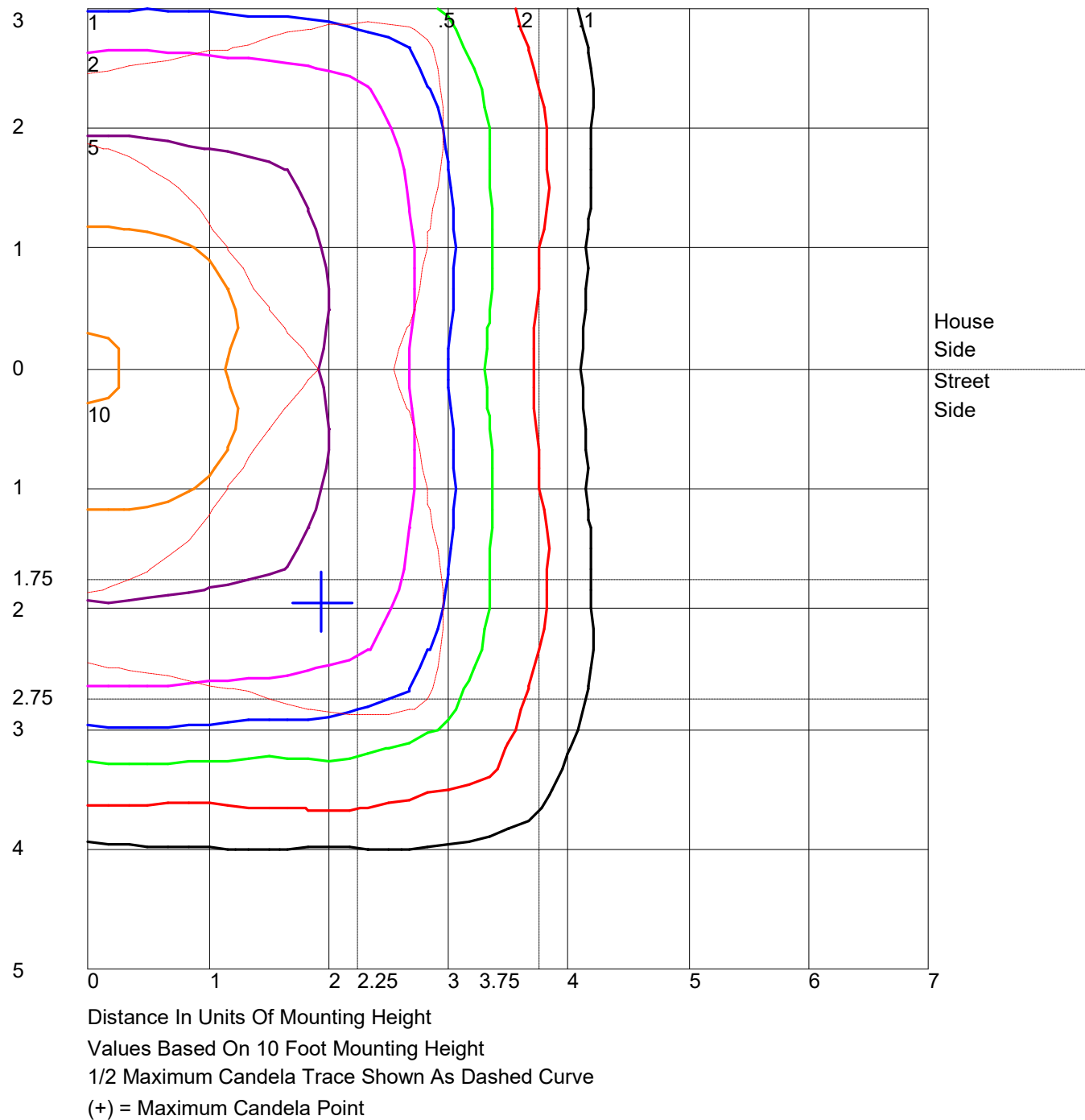
	Lumens	Percent Of Luminaire
Downward Street Side	9654.5	49.9
Downward House Side	9654.5	49.9
Downward Total	19309.0	99.8
Upward Street Side	16.1	0.1
Upward House Side	16.1	0.1
Upward Total	32.2	0.2
Total Flux	19341.2	100.0

POLAR GRAPH

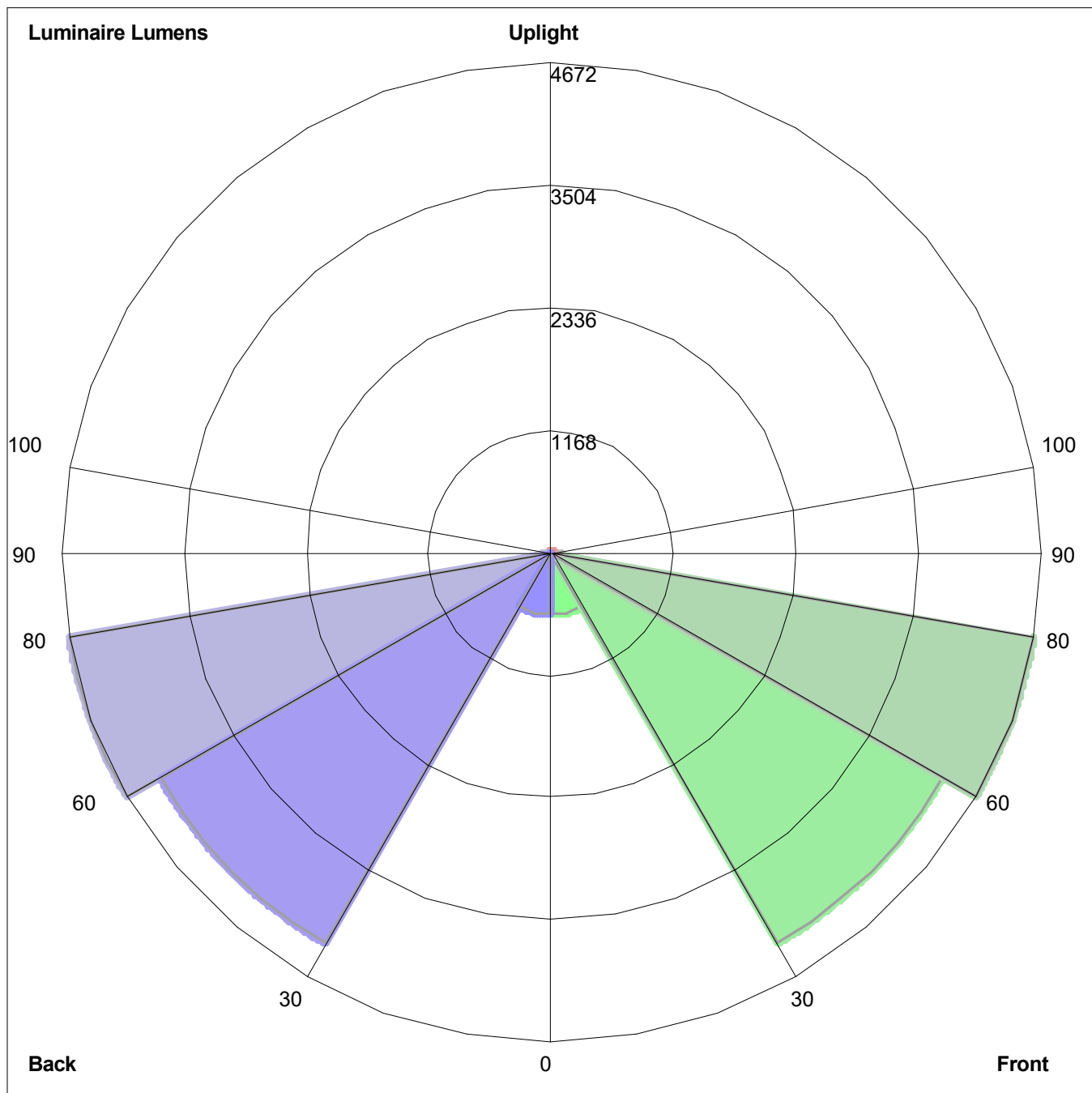


Maximum Candela = 10091 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=590.9, Medium=4308.5, High=4672.2, Very High=83.0
Back: Low=590.9, Medium=4308.5, High=4672.2, Very High=83.0
Uplight: Low=12.0, High=20.3

BUG Rating : B4-U2-G2