



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-10L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11686

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/06/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-5W-LED-10L-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	10019
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	77.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5251
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	5251
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	9 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	622 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	311.8	N.A.	3.1
FM - Front-Medium (30-60)	2136.7	N.A.	21.3
FH - Front-High (60-80)	2503.6	N.A.	25.0
FVH - Front-Very High (80-90)	49.2	N.A.	0.5
BL - Back-Low (0-30)	311.8	N.A.	3.1
BM - Back-Medium (30-60)	2136.7	N.A.	21.3
BH - Back-High (60-80)	2503.6	N.A.	25.0
BVH - Back-Very High (80-90)	49.2	N.A.	0.5
UL - Uplight-Low (90-100)	6.4	N.A.	0.1
UH - Uplight-High (100-180)	10.5	N.A.	0.1
Total	10019.5	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	522	522	522	522	522	522	522	522	522	522
2.5	520	519	521	521	524	522	521	517	516	517
5.0	493	490	492	502	499	496	492	493	483	490
7.5	492	485	484	484	480	475	489	497	513	500
10.0	494	491	487	472	486	489	506	508	523	522
12.5	548	540	534	516	522	517	525	544	546	551
15.0	595	582	568	581	581	573	571	574	592	603
17.5	629	630	614	626	644	646	629	619	642	646
20.0	687	698	681	699	706	701	704	670	690	717
22.5	752	739	759	770	781	788	794	753	759	798
25.0	809	810	829	846	869	875	901	882	831	877
27.5	908	904	929	954	970	993	1001	1008	939	963
30.0	981	985	1000	1050	1080	1125	1148	1135	1053	1043
32.5	1127	1115	1123	1150	1208	1267	1302	1275	1176	1133
35.0	1216	1231	1232	1279	1340	1434	1456	1414	1307	1232
37.5	1378	1372	1355	1380	1492	1570	1610	1568	1462	1341
40.0	1461	1469	1498	1531	1637	1745	1760	1719	1597	1426
42.5	1544	1556	1580	1650	1803	1875	1902	1839	1699	1510
45.0	1634	1647	1669	1761	1920	1996	1998	1940	1799	1593
47.5	1725	1743	1773	1869	2012	2080	2088	2041	1906	1694
50.0	1825	1847	1882	1963	2100	2167	2182	2143	2015	1813
52.5	1935	1961	1995	2064	2192	2260	2274	2256	2139	1934
55.0	2057	2087	2112	2181	2288	2369	2378	2376	2268	2063
57.5	2204	2229	2261	2316	2405	2500	2509	2531	2425	2206
60.0	2397	2408	2449	2493	2584	2705	2724	2733	2616	2392
62.5	2576	2596	2663	2751	2885	3058	3020	3012	2876	2622
65.0	2775	2804	2887	3036	3298	3559	3470	3374	3191	2893
67.5	2821	2876	3036	3357	3831	4235	4053	3820	3558	3177
70.0	2378	2446	2694	3282	4411	5251	4761	4045	3346	2737
72.5	1457	1485	1791	2426	3722	5113	4235	3045	2126	1581
75.0	489	488	672	1225	2463	3681	2763	1543	905	677
77.5	227	242	296	452	999	1751	1116	643	398	311
80.0	107	110	132	205	400	622	470	273	168	149
82.5	68	68	72	97	158	216	158	122	100	101
85.0	45	44	46	55	79	92	82	72	62	64
87.5	25	25	25	28	35	38	34	32	28	26
90.0	6	7	8	8	9	9	8	7	7	5
92.5	5	5	6	6	7	9	8	7	6	5
95.0	4	4	5	6	7	8	8	7	6	4
97.5	4	4	4	5	6	7	6	6	5	4
100.0	3	3	4	4	4	5	5	5	4	3
102.5	3	3	3	3	4	4	4	4	3	2
105.0	2	2	3	3	3	3	3	3	3	2
107.5	2	2	3	3	3	3	3	3	2	2
110.0	2	2	3	3	3	3	3	3	2	2
112.5	2	2	3	3	3	3	3	3	2	2
115.0	2	2	3	3	3	3	3	3	2	2
117.5	2	2	3	3	3	3	3	3	3	2
120.0	3	3	3	3	4	4	3	3	3	3
122.5	3	3	3	4	4	4	3	3	3	3
125.0	3	3	3	4	4	4	3	3	3	3
127.5	3	3	3	4	4	4	3	3	3	3
130.0	3	3	3	3	3	3	3	3	3	3

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CANDELA TABULATION - (Cont.)

132.5	3	3	3	3	3	3	3	3	3	3
135.0	2	2	3	3	3	3	2	2	3	3
137.5	1	1	1	1	1	1	1	1	1	1
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	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	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

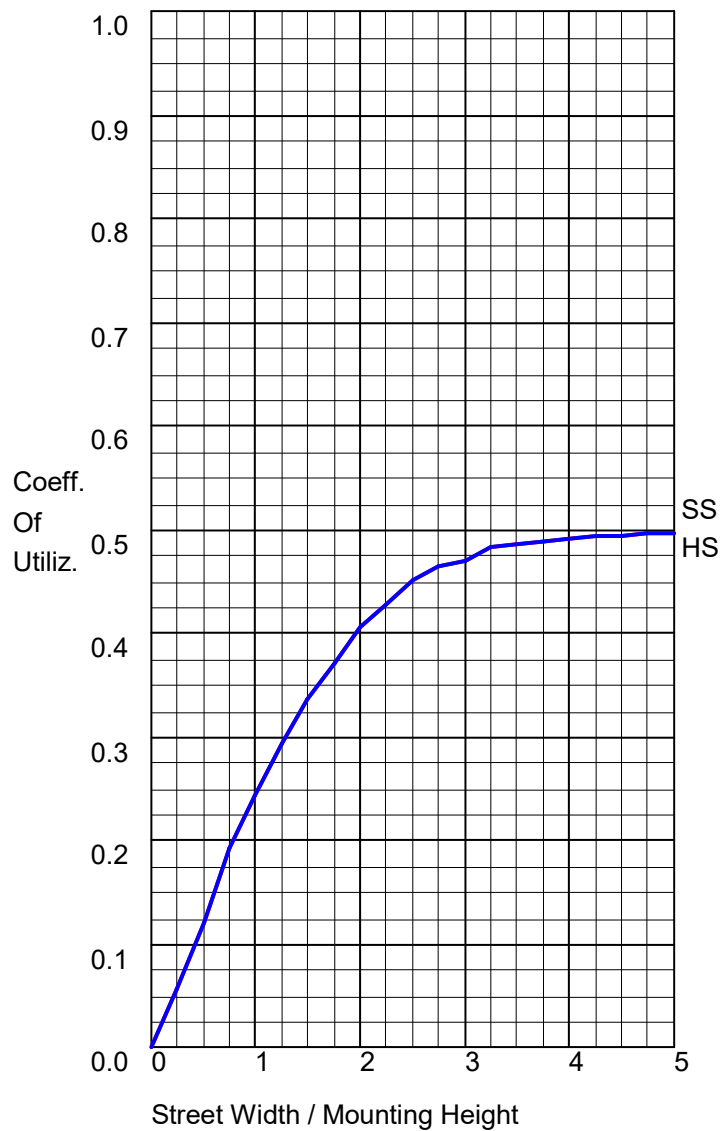
	90
0.0	522
2.5	520
5.0	494
7.5	502
10.0	517
12.5	560
15.0	601
17.5	655
20.0	713
22.5	786
25.0	875
27.5	954
30.0	1055
32.5	1137
35.0	1239
37.5	1352
40.0	1431
42.5	1508
45.0	1594
47.5	1691
50.0	1793
52.5	1891
55.0	2005
57.5	2151
60.0	2321
62.5	2525
65.0	2762
67.5	3047
70.0	2565
72.5	1483
75.0	649
77.5	300

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CANDELA TABULATION - (Cont.)

80.0	147
82.5	102
85.0	60
87.5	22
90.0	4
92.5	3
95.0	3
97.5	3
100.0	2
102.5	2
105.0	2
107.5	2
110.0	2
112.5	2
115.0	2
117.5	2
120.0	3
122.5	3
125.0	3
127.5	3
130.0	3
132.5	3
135.0	3
137.5	1
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

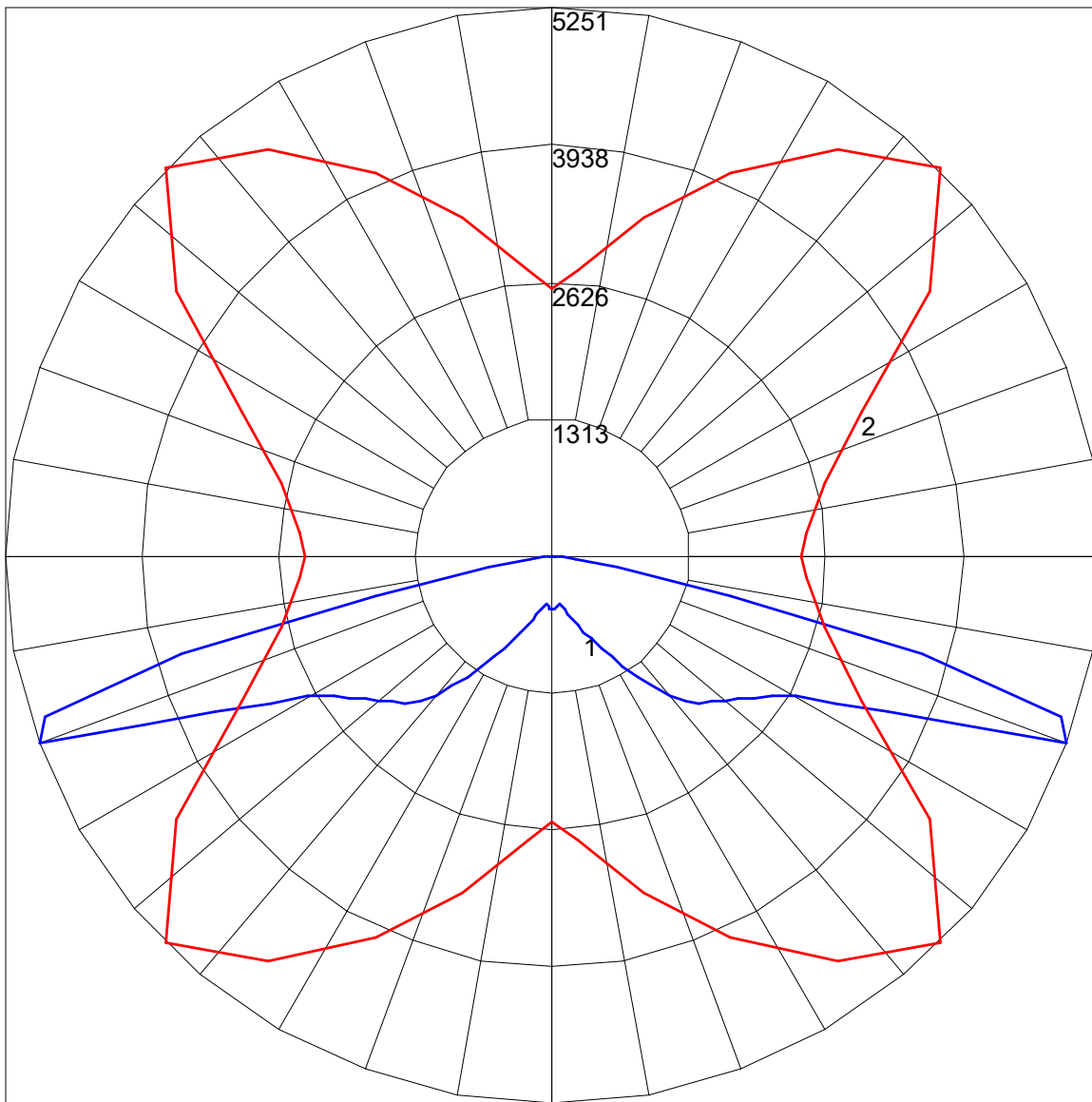
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

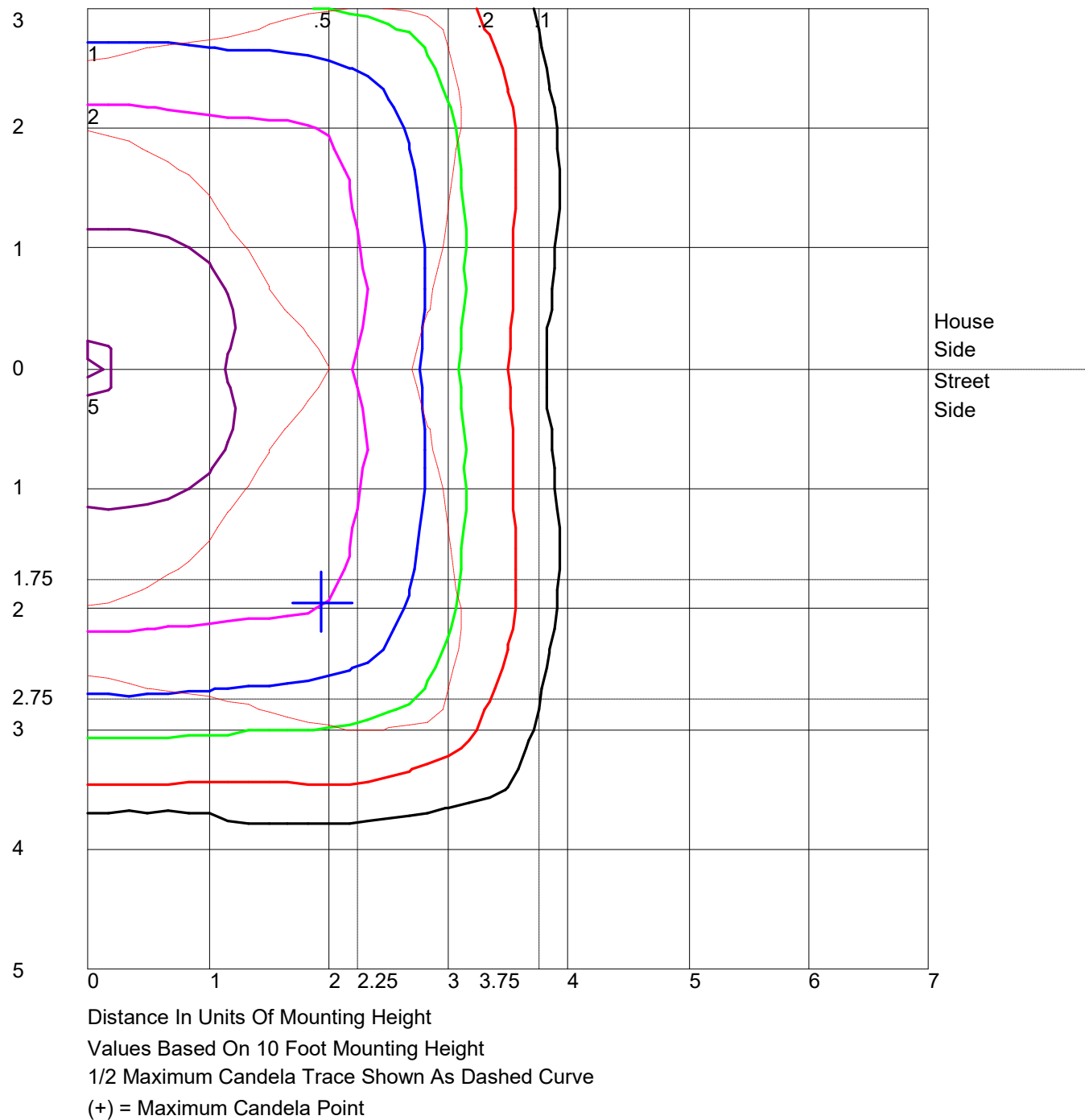
	Lumens	Percent Of Luminaire
Downward Street Side	5001.2	49.9
Downward House Side	5001.2	49.9
Downward Total	10002.4	99.8
Upward Street Side	8.5	0.1
Upward House Side	8.5	0.1
Upward Total	17.0	0.2
Total Flux	10019.4	100.0

POLAR GRAPH

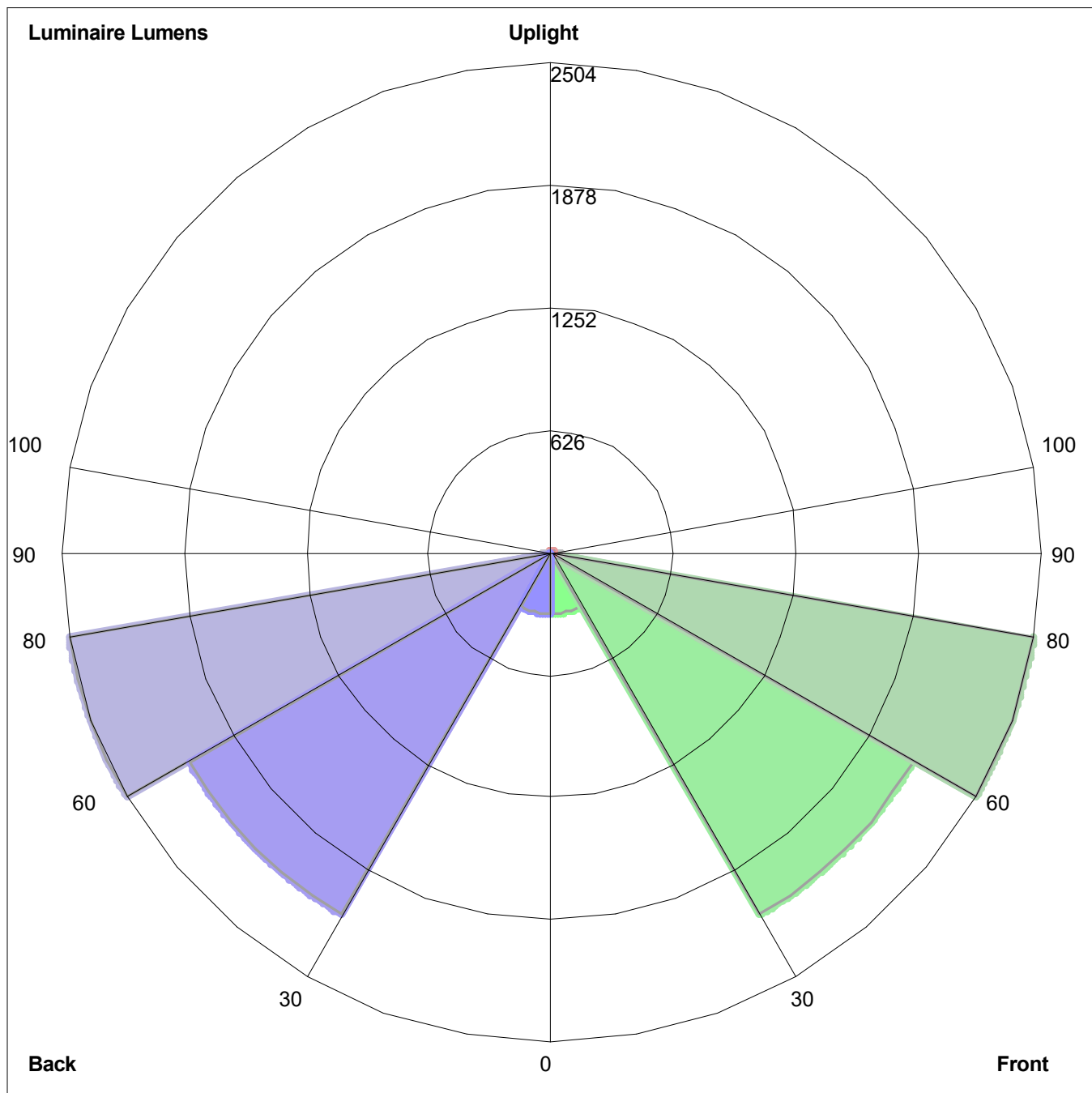


Maximum Candela = 5251 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=311.8, Medium=2136.7, High=2503.6, Very High=49.2
Back: Low=311.8, Medium=2136.7, High=2503.6, Very High=49.2
Uplight: Low=6.4, High=10.5

BUG Rating : B4-U2-G2