IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-5W-30-70CRI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12507
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 02/19/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-10L-SIL-5W-30-70CRI
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor
[_SEARCH_COLORTEMP] 3000

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10136
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	4514
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	4514
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	144 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1115 (11.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	404.4	N.A.	4.0
FM - Front-Medium (30-60)	2040.4	N.A.	20.1
FH - Front-High (60-80)	2311.2	N.A.	22.8
FVH - Front-Very High (80-90)	114.1	N.A.	1.1
BL - Back-Low (0-30)	404.4	N.A.	4.0
BM - Back-Medium (30-60)	2040.4	N.A.	20.1
BH - Back-High (60-80)	2311.2	N.A.	22.8
BVH - Back-Very High (80-90)	114.1	N.A.	1.1
UL - Uplight-Low (90-100)	118.0	N.A.	1.2
UH - Uplight-High (100-180)	277.9	N.A.	2.7
Total	10136.1	N.A.	100.0
BUG Rating	B3-U3-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	85
0.0	625	625	625	625	625	625	625	625	625	625
2.5	627	627	631	630	632	630	630	627	626	623
5.0	636	634	639	645	655	656	657	654	636	627
7.5	642	639	641	645	649	650	657	660	652	643
10.0	671	675	672	681	680	670	662	667	673	662
12.5	733	732	729	718	722	705	699	702	728	714
15.0	775	796	791	784	787	754	760	759	762	749
17.5	893	871	879	854	858	861	819	818	815	814
20.0	946	960	961	946	951	920	929	900	861	872
22.5	1075	1082	1081	1045	1060	1020	1010	974	952	954
25.0	1166	1171	1173	1161	1154	1123	1090	1076	1019	1019
27.5	1302	1295	1299	1271	1269	1240	1196	1148	1095	1121
30.0	1406	1416	1411	1392	1382	1356	1303	1231	1205	1178
32.5	1487	1491	1521	1539	1505	1458	1409	1319	1269	1233
35.0	1536	1536	1576	1640	1659	1576	1491	1393	1323	1259
37.5	1585	1578	1627	1710	1766	1709	1552	1440	1353	1287
40.0	1618	1617	1675	1776	1845	1829	1618	1503	1369	1319
42.5	1666	1656	1721	1834	1914	1909	1705	1531	1398	1354
45.0	1716	1700	1768	1891	1977	1984	1835	1565	1442	1384
47.5	1765	1760	1810	1949	2039	2040	1927	1617	1499	1420
50.0	1823	1823	1863	2005	2106	2105	1993	1665	1589	1456
52.5	1888	1888	1927	2066	2178	2185	2058	1803	1654	1536
55.0	1965	1963	2006	2140	2254	2277	2133	1920	1674	1607
57.5	2053	2058	2098	2231	2349	2375	2223	2044	1760	1673
60.0	2156	2165	2211	2332	2478	2511	2343	2179	1846	1786
62.5	2277	2284	2348	2469	2650	2705	2495	2287	2015	1869
65.0	2381	2395	2471	2628	2893	2931	2658	2440	2217	2041
67.5	2439	2456	2561	2790	3192	3252	2977	2666	2461	2290
70.0	2436	2466	2561	2907	3591	3865	3480	2971	2701	2470
72.5	2072	2106	2326	2792	3766	4514	3849	2827	2310	2027
75.0	916	960	1316	2005	3284	4172	3099	1995	1451	1216
77.5	261	281	358	664	1855	2858	2025	920	564	413
80.0	187	206	239	284	506	1115	660	335	289	256
82.5	140	162	190	214	270	343	281	245	233	209
85.0	102	124	153	168	196	232	205	197	198	178
87.5	75	94	126	136	151	169	156	161	169	151
90.0	50	67	101	111	121	127	124	135	144	122
92.5	50	64	98	108	117	124	121	133	140	107
95.0	57	64	96	107	115	121	116	128	132	101
97.5	62	63	93	104	111	117	111	121	116	101
100.0	66	63	89	101	107	113	106	112	98	100
102.5	68	63	85	99	105	108	101	100	83	94
105.0	68	62	80	97	102	103	94	88	75	87
107.5	67	63	75	94	99	98	86	78	71	80
110.0	67	63	71	92	97	92	79	71	67	75
112.5	66	64	67	89	93	85	74	66	64	70
115.0	65	64	64	84	88	80	70	62	62	66
117.5	64	64	62	78	82	76	67	60	61	62
120.0	64	63	60	71	76	72	66	59	60	60
122.5	62	62	57	65	71	69	64	58	58	58
125.0	60	59	55	60	67	67	62	58	57	56
127.5	57	57	54	55	63	64	62	58	57	55
130.0	55	55	53	53	59	62	61	58	57	55

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CANDELA TABULATION - (Cont.)

132.5	54	53	52	51	56	60	59	57	57	56
135.0	53	53	52	50	52	53	53	55	57	57
137.5	53	53	51	47	44	44	46	51	55	57
140.0	47	47	45	40	35	34	38	43	48	51
142.5	39	39	37	32	26	25	28	34	39	43
145.0	30	30	28	23	19	17	20	24	30	33
147.5	21	21	19	16	13	10	12	16	20	22
150.0	15	14	13	11	7	4	5	9	12	13
152.5	9	9	7	5	3	2	3	4	6	7
155.0	4	4	3	2	1	1	1	2	3	3
157.5	1	1	1	1	1	1	1	1	2	2
160.0	1	1	1	1	1	1	1	1	2	2
162.5	1	1	1	1	1	1	1	1	2	2
165.0	1	1	1	1	1	1	1	1	2	2
167.5	1	1	1	1	1	1	1	1	2	2
170.0	1	1	1	1	1	1	1	1	2	2
172.5	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	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**
	90
0.0	625
2.5	621
5.0	625
7.5	637
10.0	654
12.5	698
15.0	749
17.5	799
20.0	847
22.5	932
25.0	1019
27.5	1087
30.0	1169
32.5	1196
35.0	1235
37.5	1275
40.0	1314
42.5	1340
45.0	1360
47.5	1412
50.0	1445
52.5	1533
55.0	1576
57.5	1682
60.0	1754
62.5	1858
65.0	2042
67.5	2263
70.0	2446
72.5	1976
75.0	1169
77.5	416

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CANDELA TABULATION - (Cont.)

80.0	266
82.5	213
85.0	157
87.5	101
90.0	73
92.5	94
95.0	117
97.5	117
100.0	110
102.5	100
105.0	91
107.5	83
110.0	77
112.5	71
115.0	67
117.5	63
120.0	60
122.5	58
125.0	56
127.5	55
130.0	55
132.5	55
135.0	57
137.5	57
140.0	52
142.5	44
145.0	34
147.5	22
150.0	13
152.5	7
155.0	3
157.5	2
160.0	2
162.5	2
165.0	1
167.5	2
170.0	2
172.5	1
175.0	1
177.5	1
180.0	1

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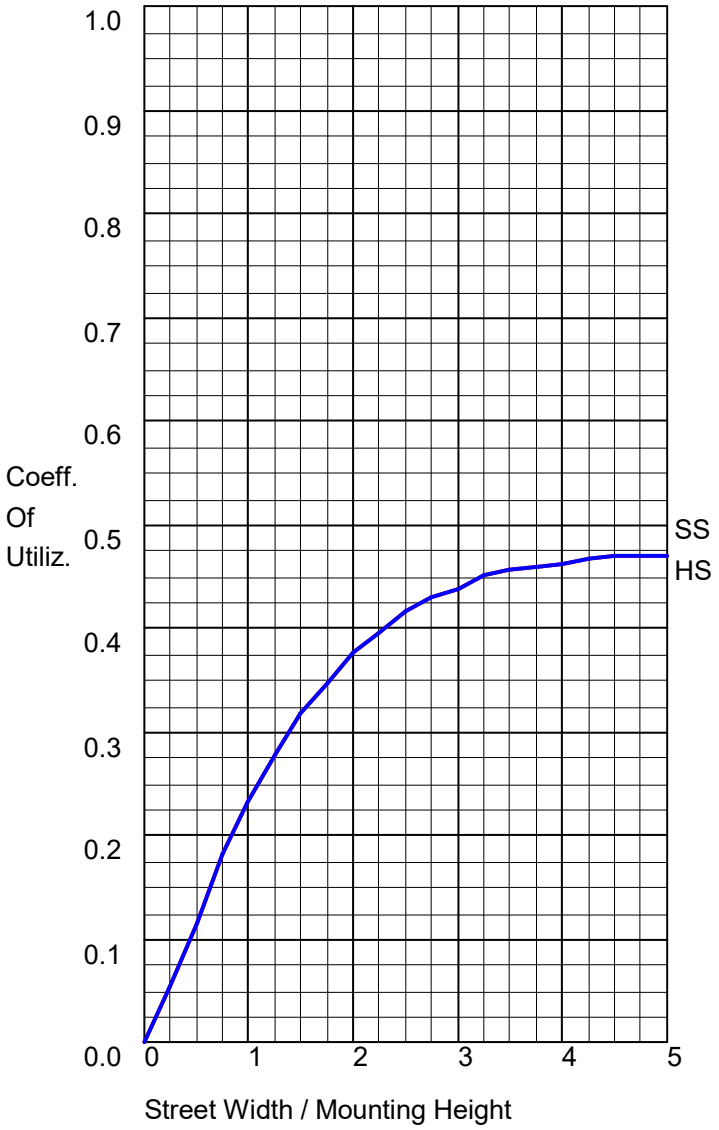
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	4870.1	48.0
Downward House Side	4870.1	48.0
Downward Total	9740.2	96.1
Upward Street Side	197.9	2.0
Upward House Side	197.9	2.0
Upward Total	395.8	3.9
Total Flux	10136.0	100.0

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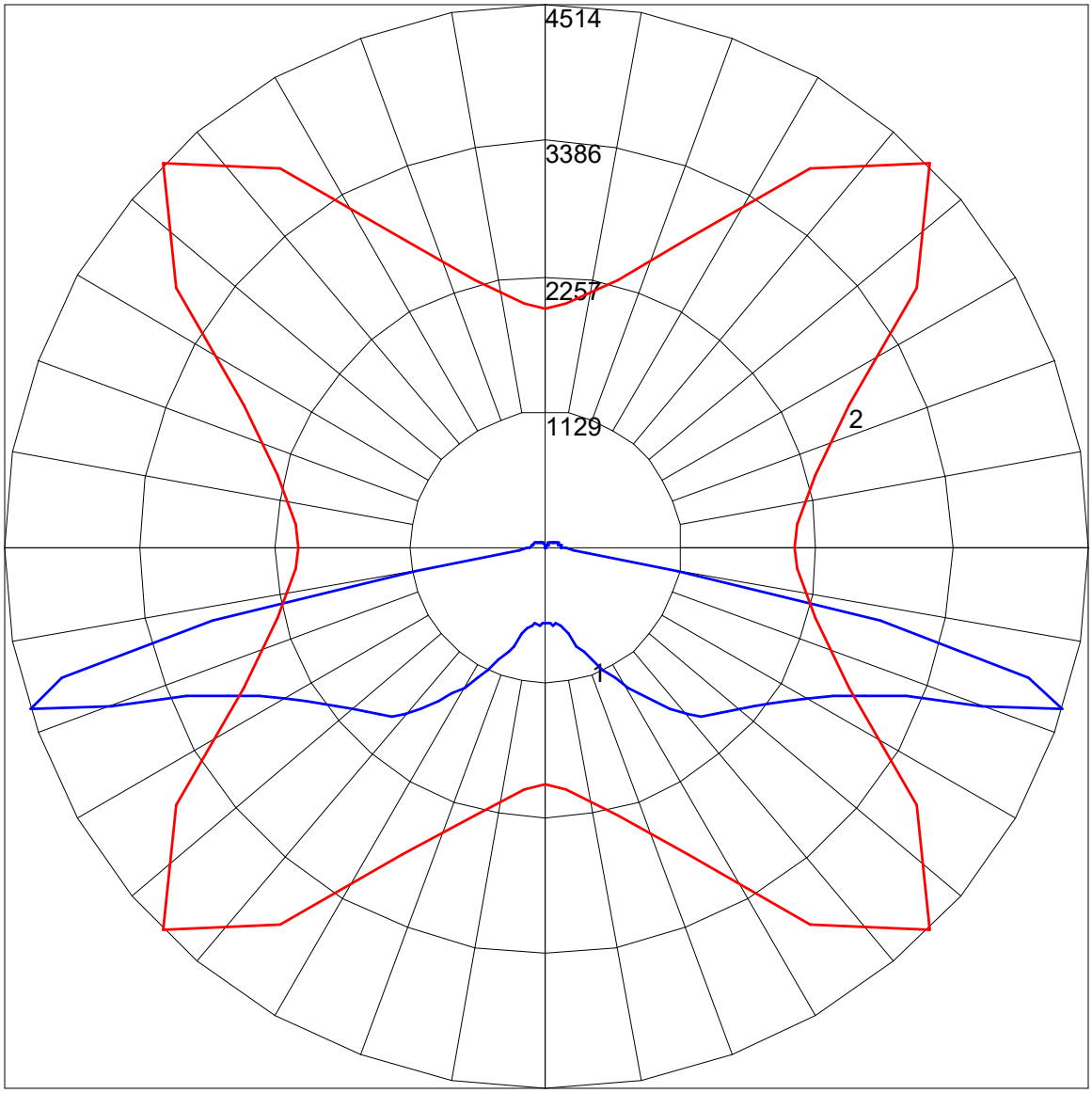
POLAR GRAPH



Maximum Candela = 4514 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

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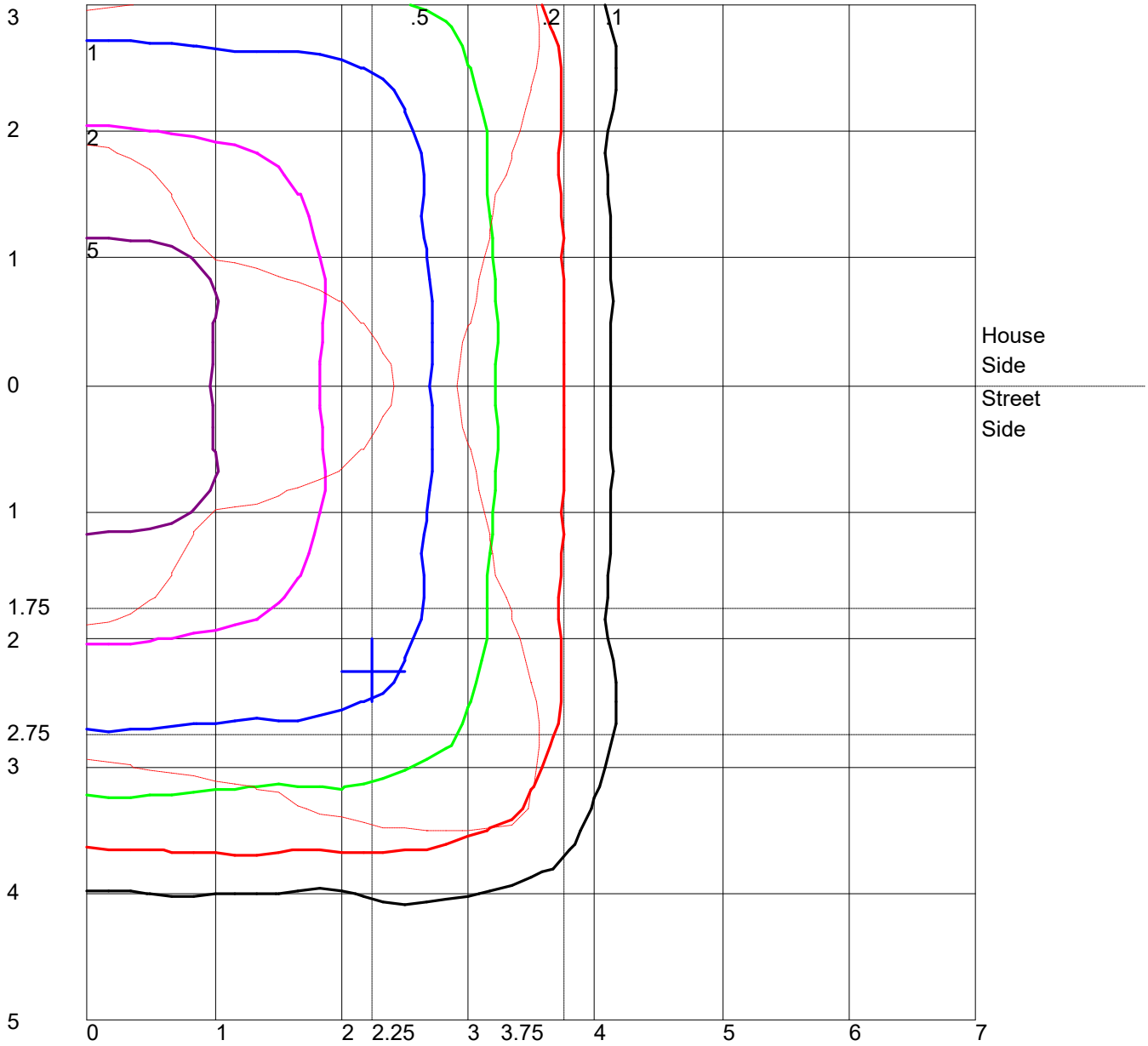
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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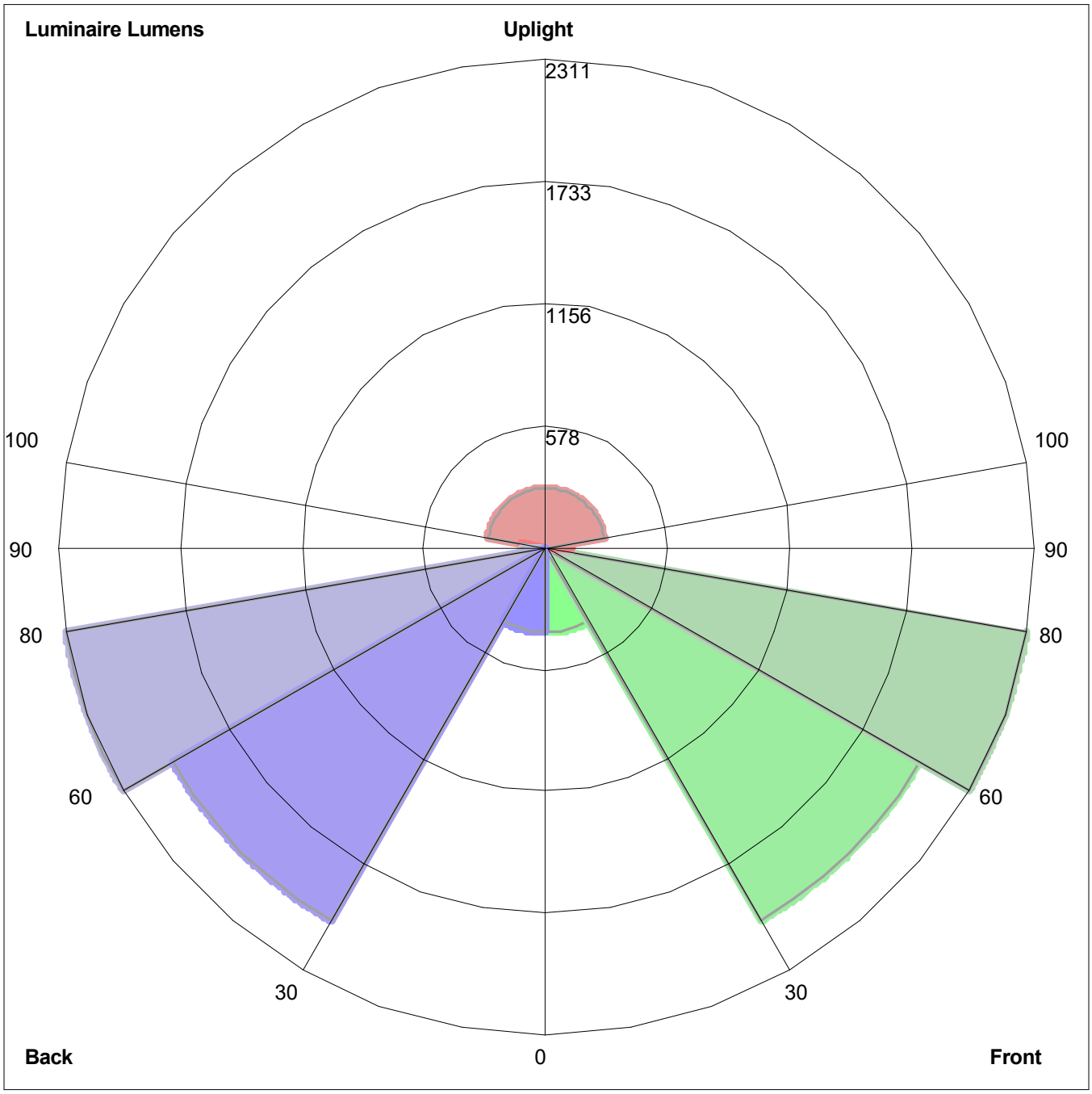
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=404.4, Medium=2040.4, High=2311.2, Very High=114.1
Back: Low=404.4, Medium=2040.4, High=2311.2, Very High=114.1
Uplight: Low=118.0, High=277.9

BUG Rating : B3-U3-G2

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