IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-15L-SIL-5W-50-70CRI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12566
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/03/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-15L-SIL-5W-50-70CRI
[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] 5000

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14967
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	102
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	6728
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	6728
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	214 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1605 (10.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	607.2	N.A.	4.1
FM - Front-Medium (30-60)	2986.2	N.A.	20.0
FH - Front-High (60-80)	3424.6	N.A.	22.9
FVH - Front-Very High (80-90)	170.7	N.A.	1.1
BL - Back-Low (0-30)	607.2	N.A.	4.1
BM - Back-Medium (30-60)	2986.2	N.A.	20.0
BH - Back-High (60-80)	3424.6	N.A.	22.9
BVH - Back-Very High (80-90)	170.7	N.A.	1.1
UL - Uplight-Low (90-100)	175.1	N.A.	1.2
UH - Uplight-High (100-180)	414.9	N.A.	2.8
Total	14967.4	N.A.	100.0
BUG Rating	B4-U3-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	85
0.0	943	943	943	943	943	943	943	943	943	943
2.5	953	953	955	956	952	952	955	947	941	934
5.0	961	961	971	980	988	993	996	984	967	947
7.5	977	976	970	974	984	988	1006	1005	993	978
10.0	1013	1025	1021	1028	1032	1019	1004	1027	1028	1009
12.5	1109	1112	1113	1091	1091	1065	1063	1053	1102	1082
15.0	1167	1193	1206	1181	1200	1139	1152	1143	1163	1147
17.5	1315	1307	1327	1277	1291	1304	1224	1236	1248	1242
20.0	1388	1422	1436	1419	1430	1379	1387	1360	1319	1334
22.5	1585	1585	1616	1573	1589	1523	1512	1469	1446	1455
25.0	1703	1712	1735	1728	1722	1680	1640	1619	1554	1549
27.5	1903	1898	1918	1885	1899	1836	1787	1721	1659	1693
30.0	2062	2075	2063	2054	2065	2024	1959	1853	1803	1785
32.5	2177	2196	2253	2271	2242	2157	2105	1968	1915	1854
35.0	2259	2265	2335	2419	2463	2318	2228	2070	1976	1894
37.5	2314	2318	2404	2516	2609	2498	2307	2134	2041	1954
40.0	2381	2365	2465	2600	2712	2681	2407	2225	2053	1979
42.5	2445	2415	2521	2680	2807	2798	2494	2288	2079	2029
45.0	2499	2477	2580	2754	2894	2884	2680	2300	2131	2076
47.5	2566	2554	2653	2825	2980	2966	2813	2347	2200	2114
50.0	2650	2647	2726	2897	3073	3061	2897	2443	2296	2127
52.5	2749	2741	2818	2980	3171	3158	2985	2597	2433	2253
55.0	2860	2856	2923	3079	3281	3278	3097	2788	2514	2348
57.5	2981	2986	3047	3203	3401	3426	3245	2974	2554	2466
60.0	3124	3129	3195	3357	3559	3605	3399	3153	2674	2548
62.5	3286	3293	3351	3543	3758	3817	3574	3348	2851	2741
65.0	3455	3469	3536	3768	4042	4116	3813	3477	3166	2950
67.5	3608	3635	3732	4021	4481	4594	4173	3765	3564	3264
70.0	3566	3599	3777	4244	5095	5442	4865	4422	4073	3710
72.5	3117	3160	3471	4084	5630	6728	5797	4653	4011	3579
75.0	1459	1642	2138	3076	5064	6514	5247	3156	2201	1785
77.5	421	467	589	1158	3202	4680	2925	1214	712	583
80.0	290	331	384	467	855	1605	761	474	427	380
82.5	213	254	295	333	425	534	410	359	347	307
85.0	153	193	233	255	301	357	302	291	295	268
87.5	110	146	188	204	226	250	233	242	250	238
90.0	75	101	150	165	179	191	186	202	214	188
92.5	81	96	146	161	175	186	179	197	208	152
95.0	91	95	144	158	170	181	170	190	197	142
97.5	97	92	139	154	165	174	161	179	172	148
100.0	101	91	133	151	159	166	155	164	142	147
102.5	103	91	126	147	154	159	149	146	122	138
105.0	103	92	119	143	151	153	139	130	111	128
107.5	102	93	111	141	148	147	127	116	104	119
110.0	100	95	105	137	144	137	117	106	100	111
112.5	99	96	99	133	139	128	109	97	96	104
115.0	97	96	95	126	131	119	104	93	93	98
117.5	96	95	92	117	122	113	100	91	92	93
120.0	95	94	90	107	114	107	97	88	89	90
122.5	93	92	86	96	106	103	94	87	87	86
125.0	91	90	83	89	99	99	93	87	85	84
127.5	87	86	81	84	93	95	92	87	85	83
130.0	84	83	80	79	89	92	92	86	85	83

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CANDELA TABULATION - (Cont.)

132.5	81	81	79	77	84	89	87	85	86	84
135.0	81	80	79	77	79	80	79	83	86	85
137.5	81	80	78	72	67	66	69	76	82	85
140.0	73	72	68	61	53	51	57	64	72	77
142.5	60	60	55	48	39	37	43	51	59	64
145.0	47	46	42	35	28	27	31	37	44	49
147.5	32	31	30	25	20	16	19	26	31	34
150.0	23	22	21	17	11	7	9	15	20	22
152.5	14	14	12	8	4	3	4	7	10	12
155.0	5	5	5	3	2	1	2	4	5	6
157.5	2	2	2	2	1	1	2	2	3	3
160.0	2	2	2	2	1	1	2	2	2	2
162.5	2	2	2	2	1	1	2	2	2	2
165.0	2	2	2	2	1	1	2	2	2	2
167.5	2	2	2	2	2	2	2	2	3	3
170.0	2	2	2	2	2	2	2	2	3	3
172.5	2	2	2	2	2	2	2	2	3	3
175.0	2	2	2	2	2	2	2	2	3	3
177.5	2	2	2	2	2	2	2	2	2	2
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles	**Horizontal Angles**
	90
0.0	943
2.5	933
5.0	941
7.5	965
10.0	996
12.5	1064
15.0	1135
17.5	1217
20.0	1305
22.5	1408
25.0	1559
27.5	1653
30.0	1750
32.5	1820
35.0	1842
37.5	1896
40.0	1971
42.5	1984
45.0	2016
47.5	2073
50.0	2157
52.5	2238
55.0	2330
57.5	2434
60.0	2546
62.5	2724
65.0	2913
67.5	3293
70.0	3676
72.5	3469
75.0	1751
77.5	586

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CANDELA TABULATION - (Cont.)

80.0	404
82.5	324
85.0	222
87.5	122
90.0	95
92.5	151
95.0	182
97.5	178
100.0	163
102.5	149
105.0	135
107.5	123
110.0	114
112.5	106
115.0	100
117.5	94
120.0	91
122.5	86
125.0	83
127.5	82
130.0	82
132.5	83
135.0	85
137.5	85
140.0	77
142.5	65
145.0	50
147.5	34
150.0	22
152.5	12
155.0	6
157.5	3
160.0	2
162.5	2
165.0	2
167.5	2
170.0	3
172.5	3
175.0	3
177.5	2
180.0	2

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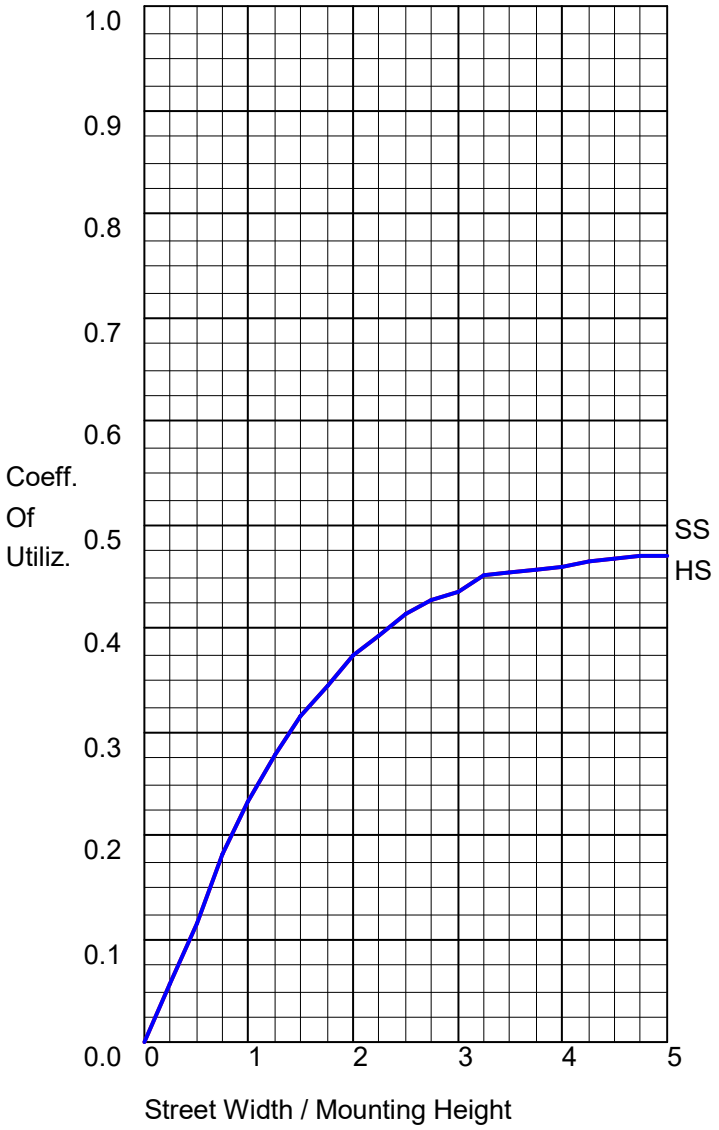
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	7188.7	48.0
Downward House Side	7188.7	48.0
Downward Total	14377.4	96.1
Upward Street Side	295.0	2.0
Upward House Side	295.0	2.0
Upward Total	590.0	3.9
Total Flux	14967.4	100.0

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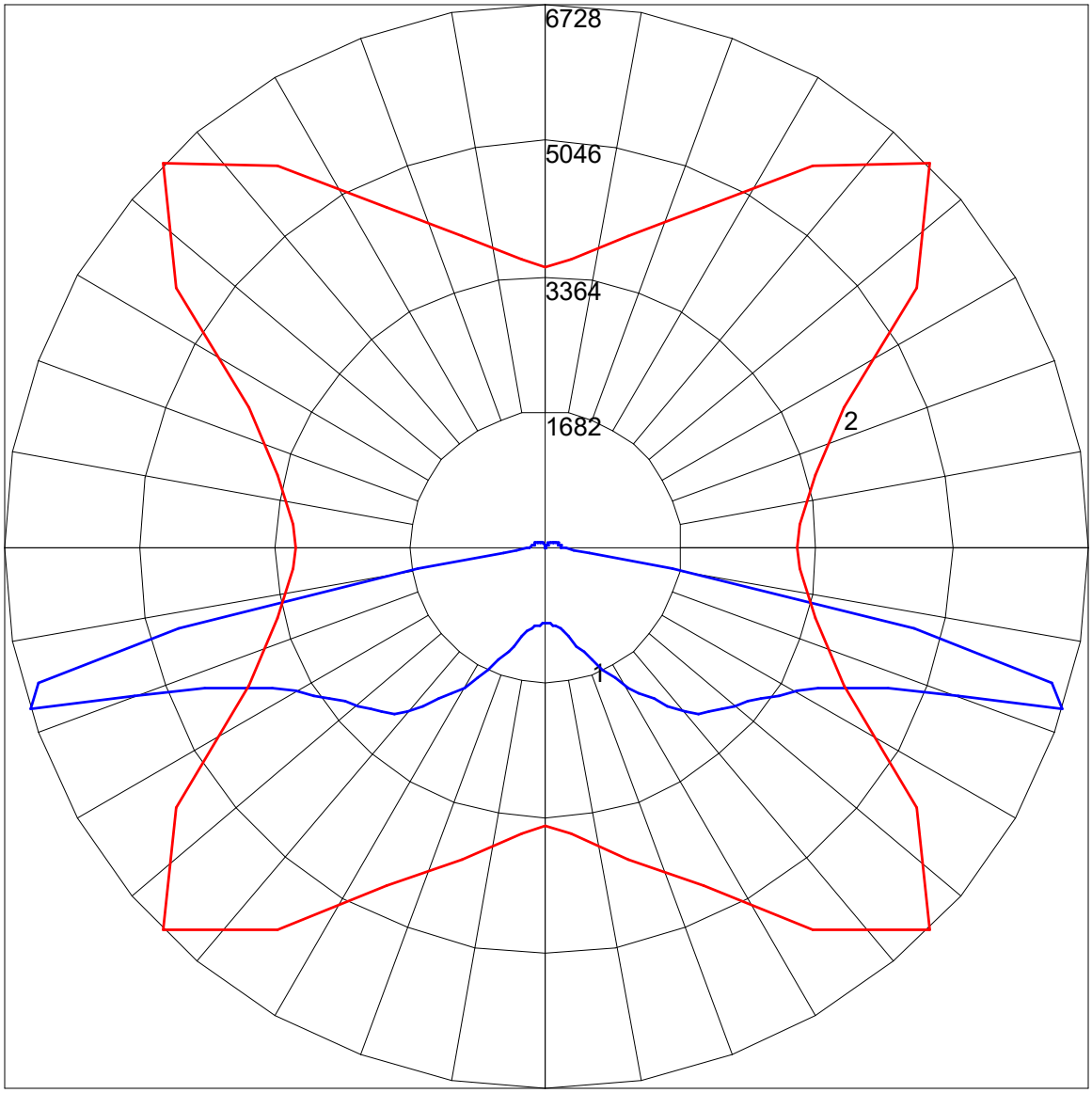
POLAR GRAPH



Maximum Candela = 6728 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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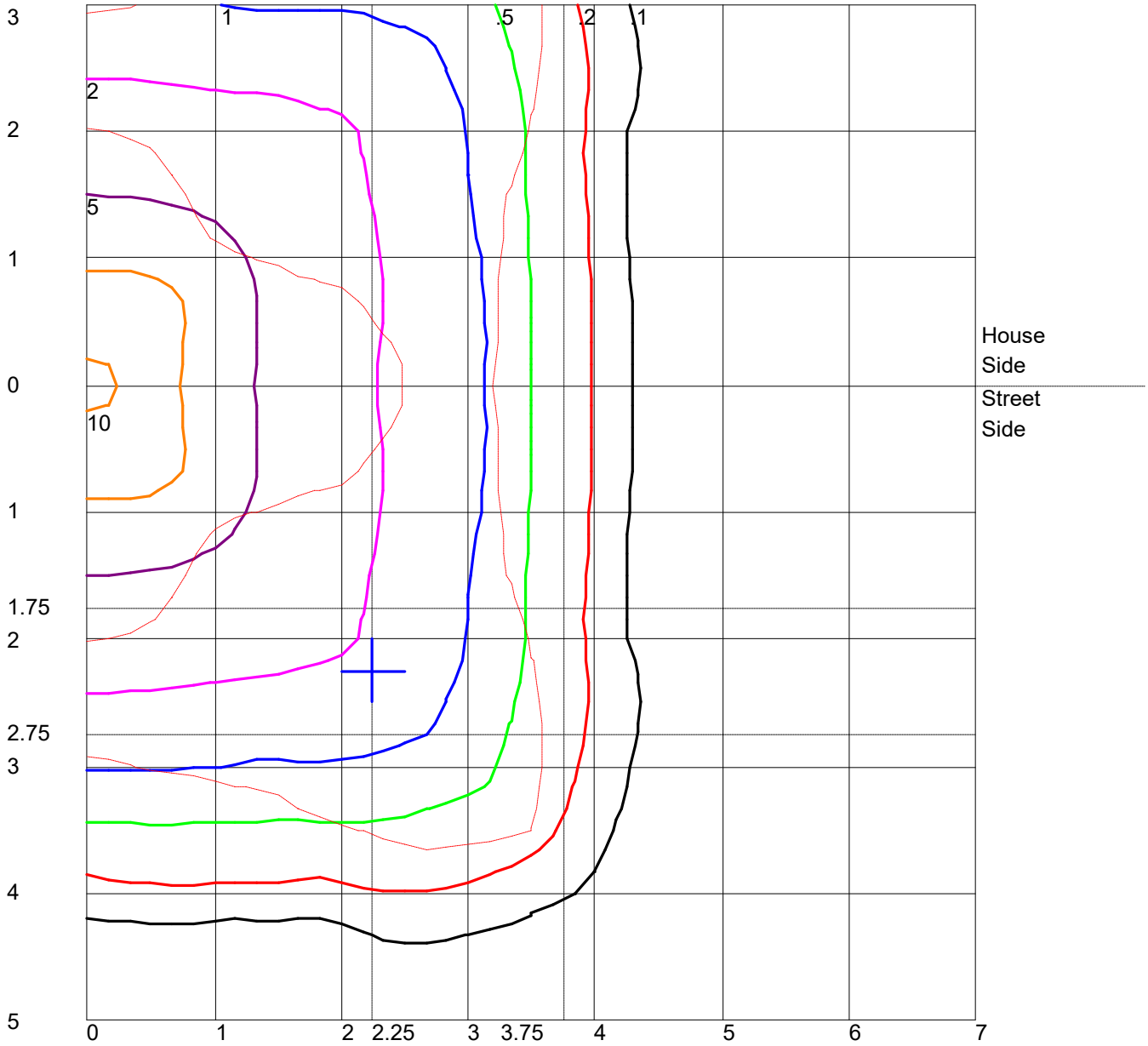
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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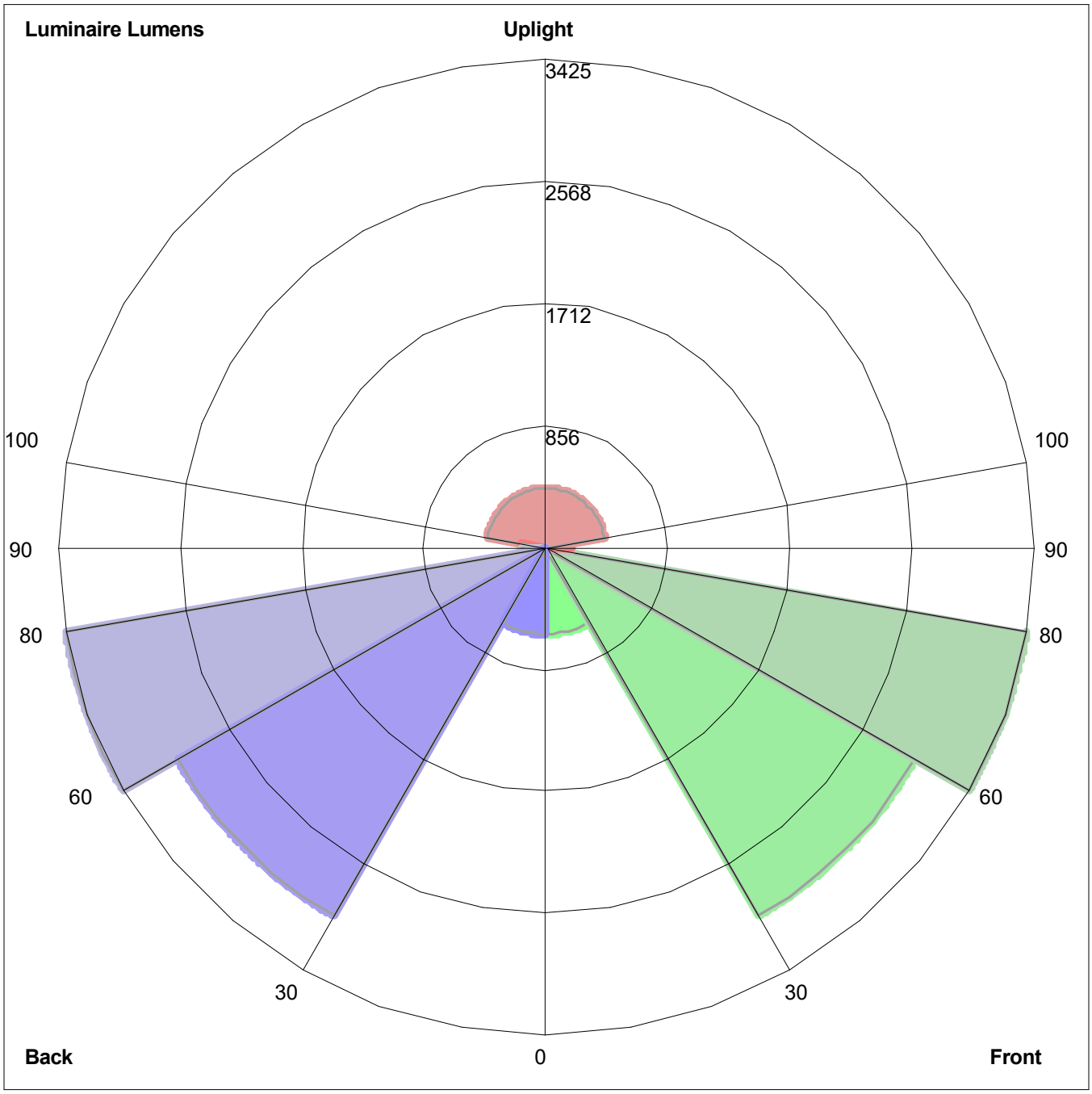
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=607.2, Medium=2986.2, High=3424.6, Very High=170.7
Back: Low=607.2, Medium=2986.2, High=3424.6, Very High=170.7
Uplight: Low=175.1, High=414.9

BUG Rating : B4-U3-G2

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