

IES ROAD REPORT
PHOTOMETRIC FILENAME : FL13-150W-C240-PCC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] JK lighting Optical Testing Lab
[DATE] 2015-08-28
[MANUFAC] Fujian Juan Kuang Yaming Electric Ltd
[LUMCAT] High Bay and Area lighting
[LUMINAIRE] FL13-150W-C240-PCC
[LAMPCAT] LED Chips
[LAMP] CREE

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17221
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	157.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12053.75
Maximum Candela Angle	67.5H 70V
Maximum Candela (<90 Degrees Vertical)	12053.75
Maximum Candela Angle (<90 Degrees Vertical)	67.5H 70V
Maximum Candela At 90 Degrees Vertical	6.098 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	768.942 (4.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2133.4	N.A.	12.4
FM - Front-Medium (30-60)	6794.2	N.A.	39.5
FH - Front-High (60-80)	3208.0	N.A.	18.6
FVH - Front-Very High (80-90)	44.8	N.A.	0.3
BL - Back-Low (0-30)	1265.4	N.A.	7.3
BM - Back-Medium (30-60)	2067.8	N.A.	12.0
BH - Back-High (60-80)	1575.0	N.A.	9.1
BVH - Back-Very High (80-90)	93.3	N.A.	0.5
UL - Uplight-Low (90-100)	3.2	N.A.	0.0
UH - Uplight-High (100-180)	35.5	N.A.	0.2
Total	17220.6	N.A.	100.0
BUG Rating	B3-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	4454.070	4454.070	4454.070	4454.070	4454.070	4454.070	4454.070	4454.070	4454.070	4454.070
5	4793.134	4822.296	4756.682	4610.210	4510.795	4227.130	4122.413	4023.660	3965.337	4058.125
10	5078.124	5107.285	4982.685	4763.309	4506.155	4026.975	3684.986	3436.449	3329.081	3523.934
15	5253.094	5281.593	5137.109	4852.783	4479.644	3800.308	3203.817	2816.761	2690.835	2891.654
20	5384.985	5404.205	5225.920	4882.607	4375.590	3513.993	2756.450	2312.395	2144.715	2378.672
25	5703.113	5529.468	5234.537	4866.701	4225.804	3144.832	2335.592	1828.575	1653.605	1877.620
30	7136.679	6422.216	5229.234	4805.064	4057.462	2788.263	1915.397	1396.451	1290.474	1438.868
35	7930.011	7597.965	5245.804	4772.588	3945.454	2480.739	1540.934	1098.802	914.818	1081.504
40	7540.304	7823.306	5746.193	4803.738	4003.777	2252.746	1223.535	818.915	796.116	781.336
45	6758.902	7303.696	7347.438	5025.764	4232.433	2134.774	932.050	725.001	768.280	688.350
50	5292.197	6550.129	9085.877	5260.384	4555.864	2096.333	738.787	897.453	1118.950	800.424
55	2997.034	4872.002	8128.179	5784.634	5758.123	2036.021	642.685	920.849	1174.026	842.377
60	847.017	2037.347	6033.834	7897.535	8097.691	2554.306	572.896	871.274	843.769	762.249
65	558.050	766.159	4323.232	10724.900	10349.770	3361.556	526.634	585.688	588.206	546.783
70	343.977	477.855	1888.887	12053.750	6575.315	3077.229	512.319	477.325	753.699	422.448
75	172.452	213.079	1026.626	2438.321	898.050	784.452	788.428	813.017	1171.243	723.808
80	105.844	103.723	383.743	416.881	199.559	178.483	429.938	768.942	712.343	708.300
85	30.222	31.349	76.285	46.858	43.212	43.014	124.402	248.737	240.983	217.653
90	0.928	0.928	1.525	1.525	1.590	5.700	5.236	4.441	3.579	3.579
95	0.729	0.729	0.862	0.795	1.525	7.091	3.579	1.657	1.392	1.790
100	0.862	0.795	0.795	0.928	1.790	9.477	5.103	1.922	1.260	1.856
105	0.862	0.862	0.928	1.193	2.386	11.731	6.826	2.718	1.723	2.718
110	0.995	1.060	1.060	1.325	2.518	11.731	7.821	3.778	2.386	3.645
115	1.127	1.127	1.127	1.325	2.453	11.400	8.417	5.170	3.579	5.170
120	1.525	1.392	1.525	1.856	3.513	9.875	7.688	5.833	4.506	5.700
125	1.988	1.657	1.525	1.988	3.248	7.688	6.761	6.164	5.435	6.031
130	4.043	2.320	1.988	2.983	5.899	5.633	5.766	6.296	8.814	6.495
135	4.506	2.850	2.585	3.645	6.628	5.368	5.899	7.423	11.201	7.622
140	4.639	3.711	3.711	4.706	6.959	7.026	7.821	9.544	12.394	9.610
145	5.170	5.103	5.170	6.628	8.284	9.477	10.406	12.129	13.918	12.129
150	6.761	7.356	7.754	9.014	10.604	12.062	13.322	15.377	16.238	15.642
155	8.881	10.007	10.604	11.665	13.057	14.912	16.437	18.425	18.623	18.823
160	11.930	12.792	13.985	14.250	15.377	17.563	19.551	20.016	20.613	20.878
165	13.985	14.315	14.978	15.310	16.238	19.286	20.546	20.214	20.613	20.811
170	16.172	16.238	16.238	16.570	17.431	18.756	18.558	18.293	18.491	18.690
175	16.768	16.835	16.768	16.835	17.497	18.756	18.491	18.358	18.358	17.961
180	18.024	18.024	18.024	18.024	18.024	18.024	18.024	18.024	18.024	18.024

Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	4454.070	4454.070	4454.070	4454.070	4454.070	4454.070	4454.070
5	4174.771	4303.349	4498.202	4516.097	4686.428	4808.377	4793.134
10	3780.425	4117.111	4480.307	4614.849	4861.398	5058.241	5078.124
15	3295.942	3890.444	4420.658	4704.323	5007.871	5236.525	5253.094
20	2821.401	3581.595	4343.777	4731.497	5099.995	5351.183	5384.985
25	2393.253	3240.933	4184.050	4734.810	5109.937	5455.237	5703.113
30	1983.663	2900.933	4047.521	4722.880	5091.379	6241.280	7136.679
35	1582.026	2565.573	3943.466	4706.973	5088.728	7334.846	7930.011
40	1235.067	2374.033	4071.380	4773.250	5578.512	7596.640	7540.304
45	962.868	2289.861	4230.444	4953.523	7437.575	7174.457	6758.902
50	747.734	2239.491	4526.702	5170.249	8861.199	6363.229	5292.197
55	633.141	2255.398	5997.382	5888.688	7521.746	4706.973	2997.034
60	564.412	3025.533	8312.428	8169.933	5249.780	1945.222	847.017

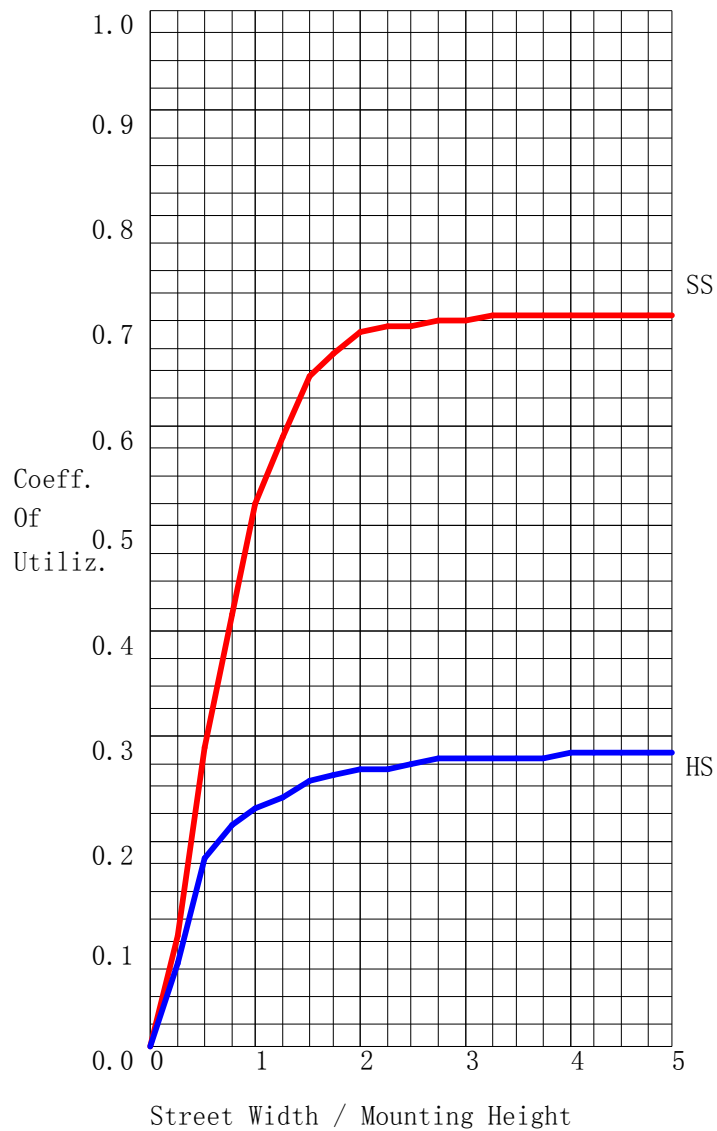
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CANDELA TABULATION - (Cont.)

65	517.687	3548.456	10254.330	10870.050	3886.468	727.718	558.050
70	715.059	2307.094	3618.710	9906.384	1747.718	464.599	343.977
75	721.224	433.980	594.701	1070.370	934.502	204.729	172.452
80	308.717	116.051	150.846	346.627	349.941	98.023	105.844
85	81.189	31.283	33.337	26.047	45.002	28.499	30.222
90	3.645	6.098	4.441	1.193	1.260	0.995	0.928
95	4.176	8.749	7.026	0.928	0.729	0.795	0.729
100	5.568	11.069	9.809	1.060	0.795	0.862	0.862
105	7.423	12.725	12.062	1.193	0.795	0.928	0.862
110	8.284	12.460	12.195	1.260	0.995	0.995	0.995
115	8.549	11.930	11.731	1.193	1.060	1.127	1.127
120	8.284	10.539	10.074	1.922	1.325	1.458	1.525
125	7.489	8.284	8.019	1.856	1.458	1.790	1.988
130	6.098	6.098	6.694	2.585	1.790	2.386	4.043
135	6.164	5.633	6.031	3.446	2.453	2.850	4.506
140	8.086	7.489	7.291	4.506	3.380	3.513	4.639
145	11.002	10.140	9.212	6.098	4.706	4.838	5.170
150	14.250	12.990	11.599	8.284	6.893	6.893	6.761
155	17.365	15.907	14.647	10.604	9.742	9.212	8.881
160	20.480	18.491	17.497	13.123	12.924	12.062	11.930
165	20.943	20.016	19.485	14.713	14.846	14.183	13.985
170	18.823	19.353	19.751	16.437	16.039	15.973	16.172
175	18.093	18.623	19.751	17.232	16.768	16.635	16.768
180	18.024	18.024	18.024	18.024	18.024	18.024	18.024

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COEFFICIENTS OF UTILIZATION

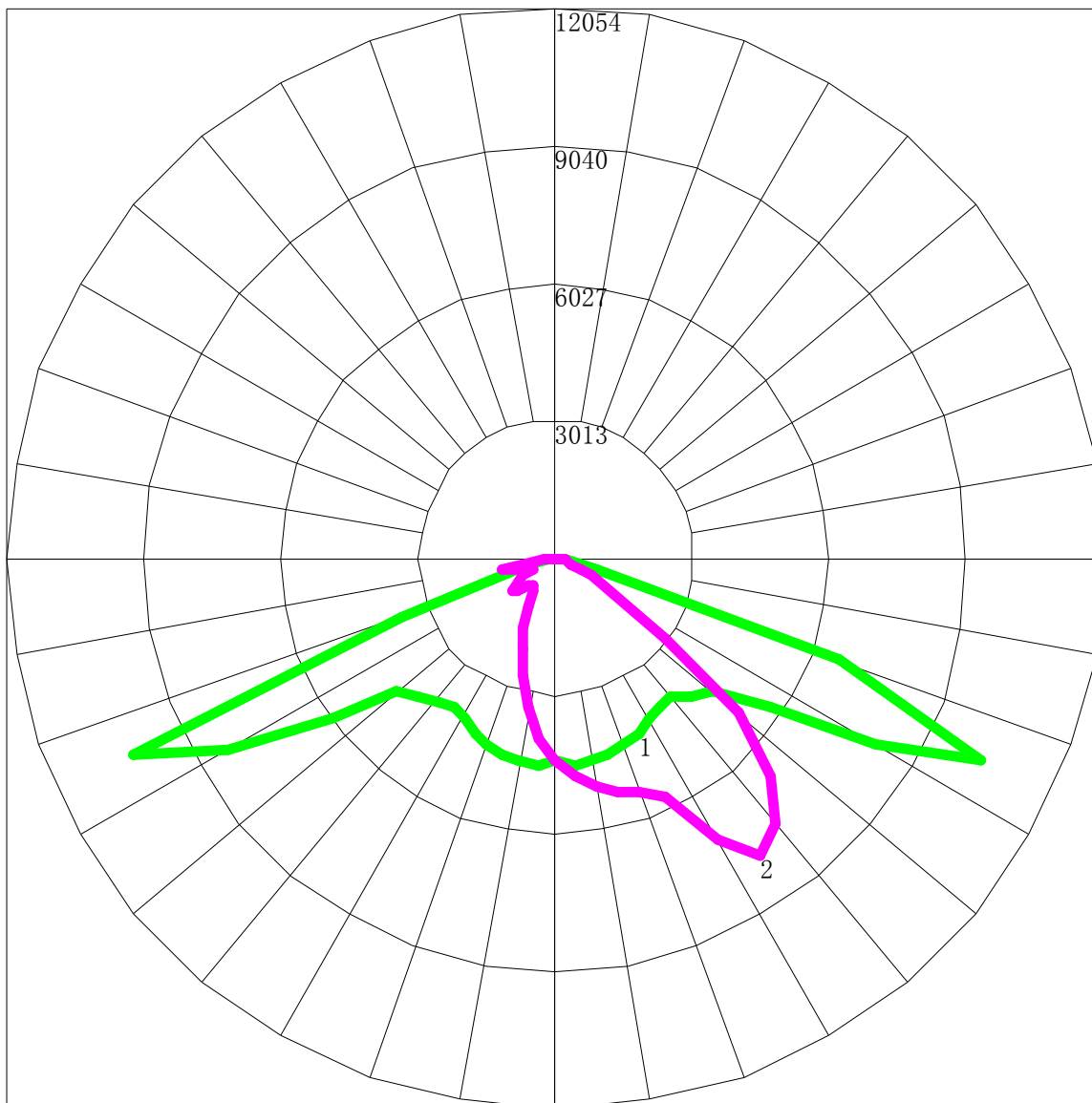


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	12180.5	70.7
Downward House Side	5001.5	29.0
Downward Total	17182.0	99.8
Upward Street Side	12.3	0.1
Upward House Side	26.3	0.2
Upward Total	38.6	0.2
Total Flux	17220.6	100.0

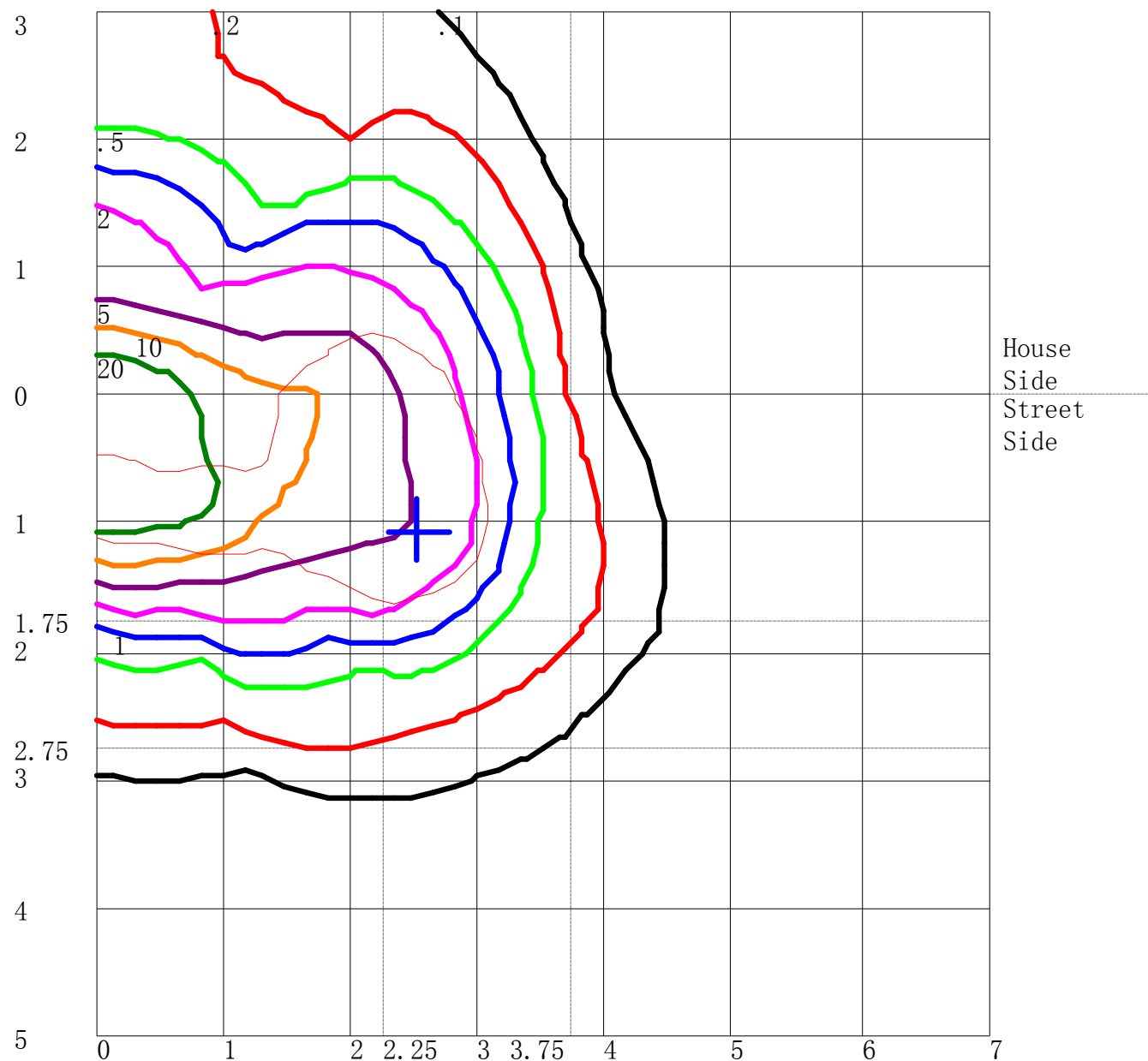
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POLAR GRAPH



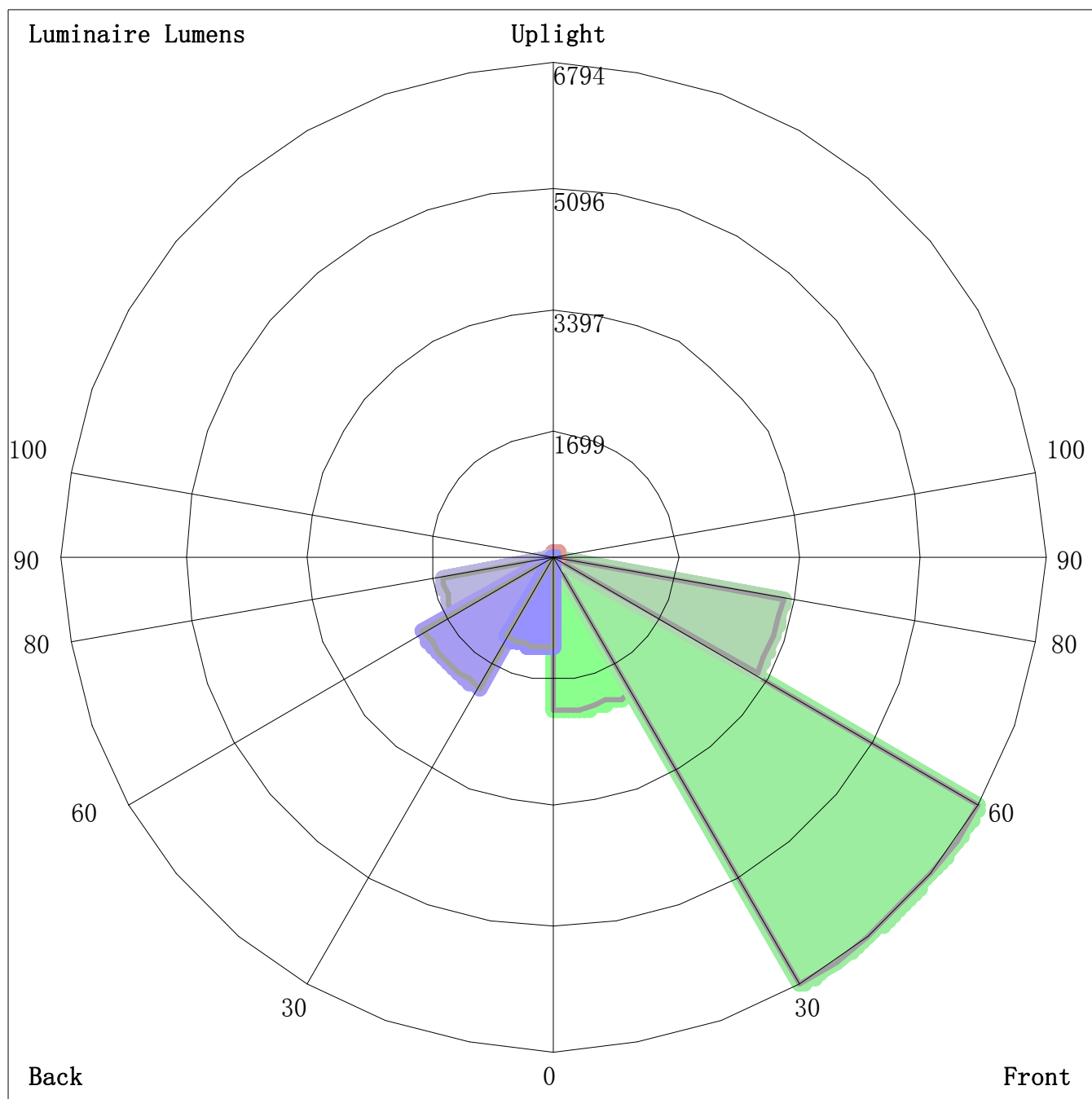
Maximum Candela = 12053.75 Located At Horizontal Angle = 67.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Vertical Plane Through Horizontal Angles (0 - 180)

ISOLUX LINES OF HORIZONTAL ILLUMINANCE



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

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2133.4, Medium=6794.2, High= 3208.0, Very High=44.8
Back: Low=1265.4, Medium=2067.8, High= 1575.0, Very High=93.3
Uplight: Low=3.2, High=35.5

BUG Rating : B3-U2-G3