

IES ROAD REPORT
PHOTOMETRIC FILENAME : FL13-120W-C340-PCC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] JK lighting Optical Testing Lab
[DATE] 2015-09-01
[MANUFAC] Fujian Juan Kuang Yaming Electric Ltd
[LUMCAT] High Bay and Area lighting
[LUMINAIRE] FL13-120W-C340-PCC
[LAMPCAT] LED Chips
[LAMP] CREE

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13880
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	126
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8595.462
Maximum Candela Angle	67.5H 70V
Maximum Candela (<90 Degrees Vertical)	8595.462
Maximum Candela Angle (<90 Degrees Vertical)	67.5H 70V
Maximum Candela At 90 Degrees Vertical	5.897 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	665.564 (4.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1718.6	N.A.	12.4
FM - Front-Medium (30-60)	5139.4	N.A.	37.0
FH - Front-High (60-80)	2871.0	N.A.	20.7
FVH - Front-Very High (80-90)	57.1	N.A.	0.4
BL - Back-Low (0-30)	1056.0	N.A.	7.6
BM - Back-Medium (30-60)	1629.8	N.A.	11.7
BH - Back-High (60-80)	1286.5	N.A.	9.3
BVH - Back-Very High (80-90)	89.1	N.A.	0.6
UL - Uplight-Low (90-100)	3.0	N.A.	0.0
UH - Uplight-High (100-180)	29.2	N.A.	0.2
Total	13879.7	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	3649.294	3649.294	3649.294	3649.294	3649.294	3649.294	3649.294	3649.294	3649.294	3649.294
5	3909.659	3907.554	3875.434	3769.596	3713.256	3481.045	3374.155	3301.490	3267.264	3334.663
10	4121.334	4112.909	4031.820	3871.748	3706.410	3305.176	3041.373	2846.021	2775.463	2894.464
15	4270.875	4262.450	4150.821	3923.876	3664.812	3130.887	2653.303	2384.761	2288.401	2409.509
20	4415.151	4407.779	4226.644	3939.673	3568.979	2883.933	2339.477	1971.416	1875.583	2021.439
25	4578.909	4504.665	4271.928	3929.668	3446.292	2599.595	1975.102	1610.727	1475.402	1632.843
30	4953.289	4667.370	4279.826	3871.221	3285.167	2317.362	1656.011	1284.263	1244.246	1316.910
35	5754.703	5267.114	4244.020	3796.977	3144.051	2061.456	1358.508	1047.894	913.570	1050.105
40	5923.200	5675.719	4198.737	3783.814	3106.139	1837.672	1133.670	730.382	707.688	712.269
45	5471.417	5647.813	4389.876	3849.106	3218.822	1717.618	836.219	626.388	640.289	601.060
50	4682.113	5232.888	5379.797	4034.979	3340.455	1630.209	637.287	683.624	874.605	606.432
55	3657.967	4581.015	6178.579	4214.534	3655.334	1553.859	549.195	930.420	1157.891	838.589
60	1554.913	3259.893	5633.596	5072.289	5073.869	1612.307	494.065	896.879	914.096	781.458
65	492.328	1149.992	4279.300	6826.765	6587.184	2211.525	442.200	535.031	554.092	503.069
70	345.419	479.690	3213.555	8595.462	6730.406	2309.463	400.760	425.508	678.095	374.538
75	159.967	275.387	1113.134	4561.006	1293.742	900.775	546.035	726.855	1027.569	603.641
80	97.096	104.731	413.345	665.564	272.228	253.062	470.634	661.561	598.849	609.065
85	28.855	31.646	73.454	73.349	44.441	46.811	159.125	201.986	181.871	169.603
90	0.842	0.895	1.896	2.422	1.632	5.476	4.475	3.633	3.159	3.739
95	0.579	0.579	0.737	0.632	1.158	6.898	4.107	1.685	1.158	1.790
100	0.632	0.632	0.632	0.737	1.369	8.320	5.266	2.159	1.316	2.211
105	0.685	0.737	0.685	0.895	1.632	9.268	6.740	3.159	1.949	3.265
110	0.790	0.895	0.842	0.948	1.843	8.846	6.687	4.054	2.738	4.107
115	0.895	0.948	1.001	1.001	1.896	8.635	6.740	5.160	3.739	5.055
120	1.158	1.158	1.211	1.475	2.685	7.161	5.897	5.160	4.475	5.055
125	1.790	1.475	1.316	1.580	2.422	5.476	5.213	5.266	5.055	5.371
130	3.475	2.001	1.685	2.317	4.634	4.265	4.528	5.423	8.794	5.476
135	4.054	2.633	2.211	3.001	5.108	4.318	4.792	6.161	10.426	6.056
140	4.002	3.265	3.001	4.002	5.634	5.844	6.318	7.951	10.689	7.740
145	4.370	4.370	4.475	5.476	6.845	7.740	8.530	10.004	11.268	9.847
150	5.634	6.108	6.477	7.530	8.794	10.110	10.899	12.480	12.954	12.480
155	7.161	8.109	8.741	9.530	10.531	12.216	13.322	14.638	14.744	15.059
160	9.689	10.426	11.373	11.637	12.637	14.533	16.060	16.428	16.323	16.534
165	12.585	13.216	13.690	13.585	14.217	16.376	17.166	16.534	16.797	17.061
170	13.743	13.743	14.111	14.217	14.849	15.954	16.113	15.849	15.744	15.744
175	14.217	14.480	14.533	14.480	14.849	15.533	15.480	15.270	15.006	14.533
180	14.893	14.893	14.893	14.893	14.893	14.893	14.893	14.893	14.893	14.893

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	3649.294	3649.294	3649.294	3649.294	3649.294	3649.294	3649.294
5	3439.974	3522.643	3697.458	3705.883	3805.402	3895.442	3909.659
10	3091.922	3367.310	3657.440	3766.963	3956.523	4086.581	4121.334
15	2722.281	3170.905	3619.529	3830.150	4074.997	4237.702	4270.875
20	2360.540	2926.058	3521.063	3828.043	4148.188	4350.384	4415.151
25	2030.390	2674.365	3413.120	3842.787	4181.361	4461.488	4578.909
30	1698.661	2385.288	3260.419	3794.871	4178.202	4584.701	4953.289
35	1390.101	2104.634	3132.466	3742.215	4142.396	5110.202	5754.703
40	1110.502	1902.964	3102.453	3731.158	4096.059	5509.329	5923.200
45	864.917	1786.069	3139.312	3766.963	4239.809	5500.377	5471.417
50	659.456	1704.980	3218.822	3831.203	5200.242	5067.550	4682.113
55	542.508	1627.577	3504.740	3997.594	6004.289	4390.403	3657.967
60	480.532	1754.476	4847.977	4818.490	5272.907	3044.005	1554.913

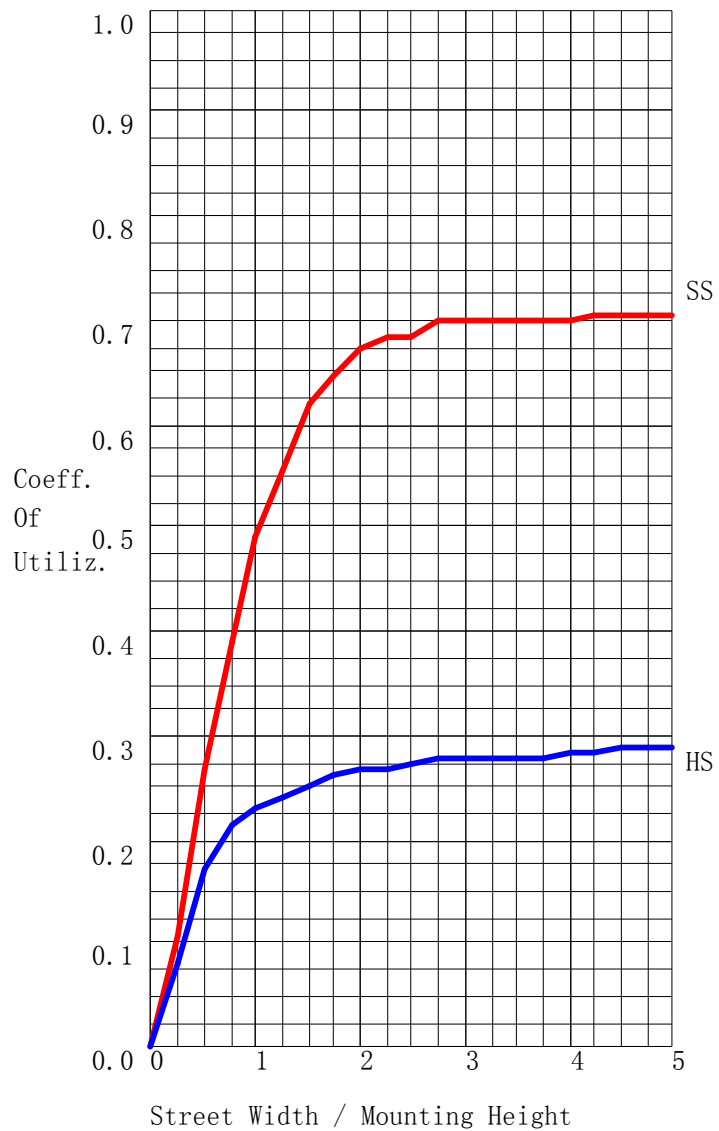
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CANDELA TABULATION - (Cont.)

65	426.245	2272.078	6379.196	6427.111	3882.279	1121.033	492.328
70	420.664	2254.175	6179.105	8010.984	2898.150	450.203	345.419
75	554.829	688.995	1013.510	3202.498	987.288	273.808	159.967
80	302.347	177.185	262.381	496.014	374.380	101.572	97.096
85	87.776	37.543	53.288	53.550	68.873	33.594	28.855
90	4.423	5.897	4.634	2.106	1.632	1.053	0.842
95	4.634	7.846	6.056	0.737	0.632	0.632	0.579
100	5.687	9.109	7.846	0.842	0.685	0.737	0.632
105	6.951	9.794	9.162	0.948	0.527	0.737	0.685
110	7.108	9.425	8.899	0.895	0.790	0.895	0.790
115	7.161	8.899	8.478	1.001	0.790	1.001	0.895
120	6.529	7.530	7.108	1.475	1.053	1.158	1.158
125	5.687	5.844	5.687	1.422	1.158	1.422	1.790
130	4.634	4.423	4.897	2.001	1.527	2.001	3.475
135	4.687	4.265	4.054	2.422	2.054	2.580	4.054
140	6.371	5.792	5.423	3.423	2.791	3.159	4.002
145	8.583	8.004	7.319	4.739	4.054	4.213	4.370
150	11.058	10.373	9.373	6.582	5.844	5.739	5.634
155	13.796	12.901	11.742	8.635	8.004	7.740	7.161
160	16.323	15.112	14.164	10.637	10.689	9.952	9.689
165	17.745	16.744	16.113	12.690	12.848	12.427	12.585
170	15.902	16.060	16.218	13.849	13.743	13.585	13.743
175	14.744	15.112	15.849	14.744	14.375	14.217	14.217
180	14.893	14.893	14.893	14.893	14.893	14.893	14.893

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COEFFICIENTS OF UTILIZATION

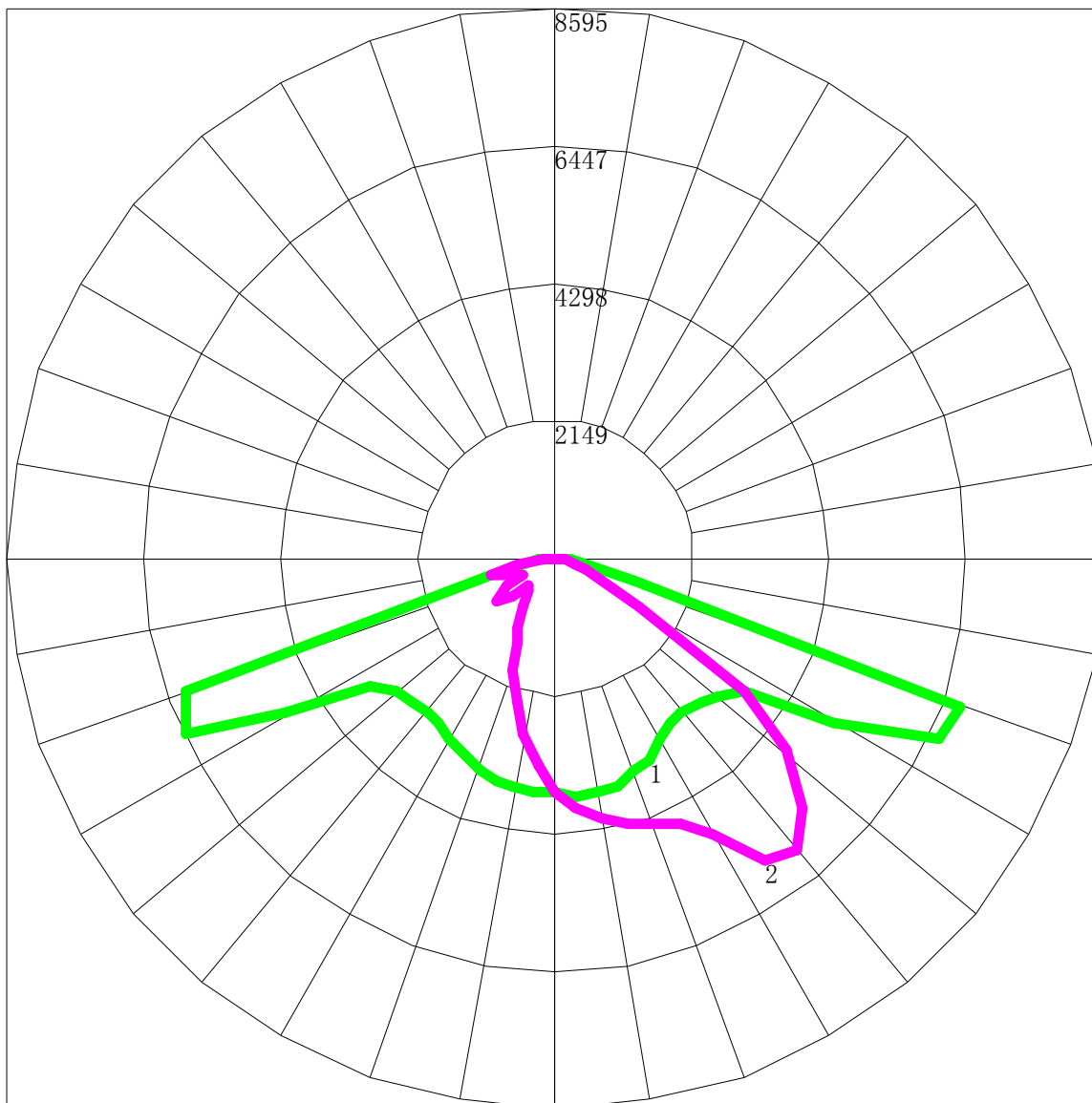


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	9786.1	70.5
Downward House Side	4061.4	29.3
Downward Total	13847.5	99.8
Upward Street Side	10.2	0.1
Upward House Side	22.0	0.2
Upward Total	32.2	0.2
Total Flux	13879.7	100.0

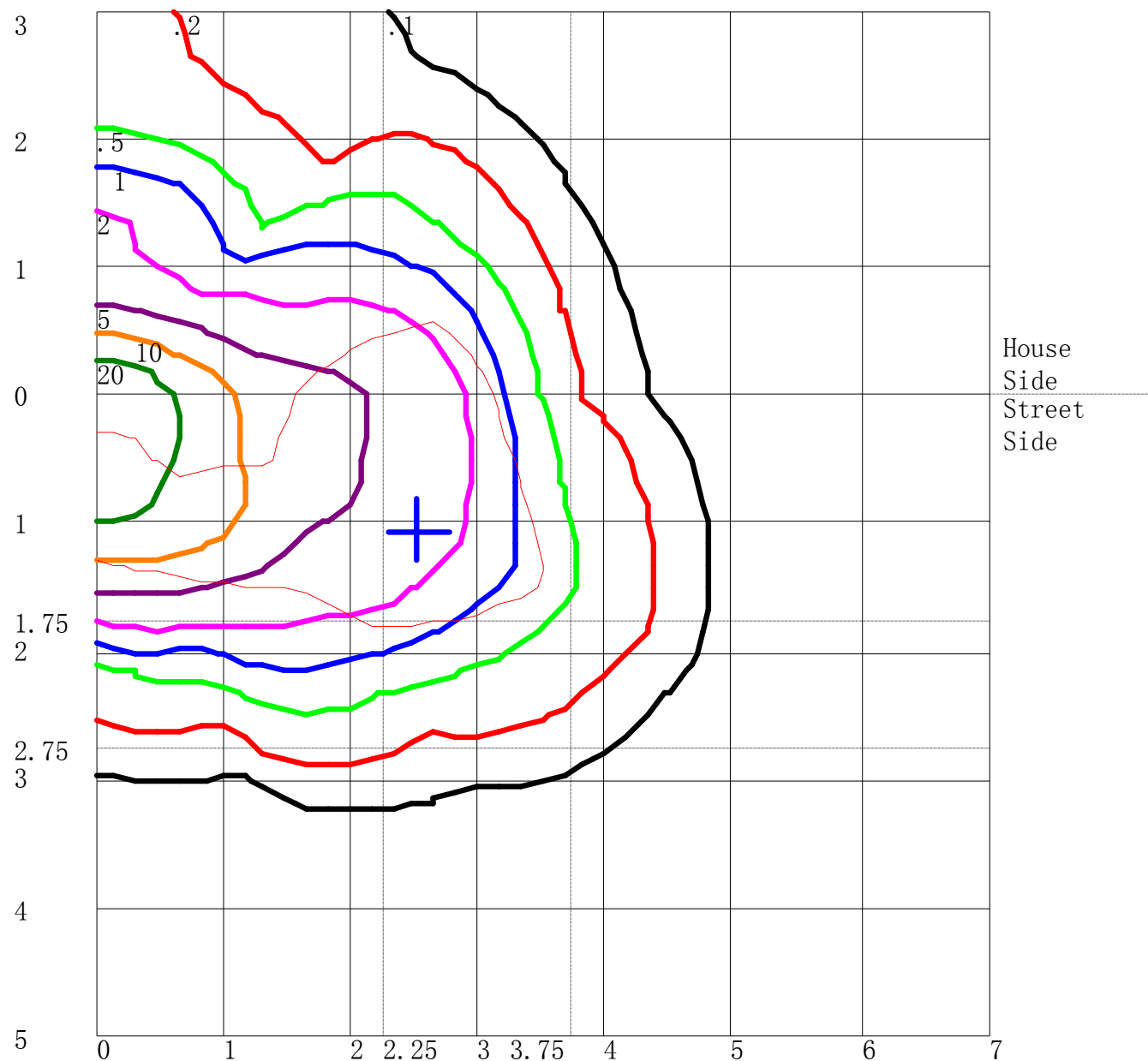
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POLAR GRAPH



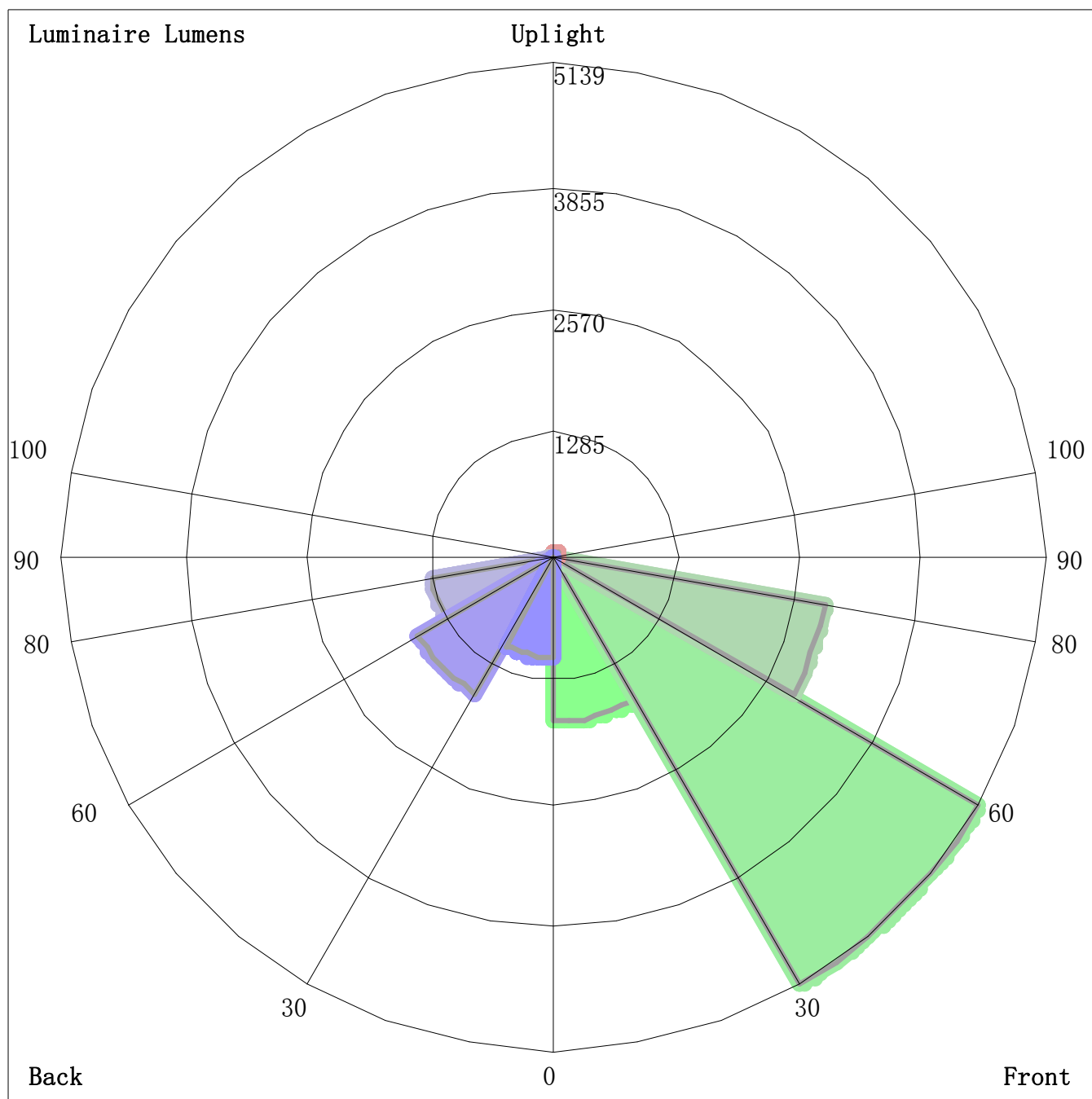
Maximum Candela = 8595.462 Located At Horizontal Angle = 67.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Vertical Plane Through Horizontal Angles (0 - 180)

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=1718.6, Medium=5139.4, High= 2871.0, Very High=57.1

Back: Low= 1056.0, Medium=1629.8, High=1286.5, Very High=89.1

Uplight: Low=3.0, High=29.2

BUG Rating : B3-U2-G3