

IES ROAD REPORT
PHOTOMETRIC FILENAME : FL23-240W-C340-PCC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IIESNA: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] FL23-240W-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	27759
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	252
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17190.92
Maximum Candela Angle	67.5H 70V
Maximum Candela (<90 Degrees Vertical)	17190.92
Maximum Candela Angle (<90 Degrees Vertical)	67.5H 70V
Maximum Candela At 90 Degrees Vertical	11.794 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1331.127 (4.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3437.2	N.A.	12.4
FM - Front-Medium (30-60)	10278.7	N.A.	37.0
FH - Front-High (60-80)	5742.0	N.A.	20.7
FVH - Front-Very High (80-90)	114.2	N.A.	0.4
BL - Back-Low (0-30)	2112.0	N.A.	7.6
BM - Back-Medium (30-60)	3259.5	N.A.	11.7
BH - Back-High (60-80)	2572.9	N.A.	9.3
BVH - Back-Very High (80-90)	178.3	N.A.	0.6
UL - Uplight-Low (90-100)	6.0	N.A.	0.0
UH - Uplight-High (100-180)	58.3	N.A.	0.2
Total	27759.1	N.A.	100.0
BUG Rating	B4-U3-G4		

IES ROAD REPORT
PHOTOMETRIC FILENAME : FL23-240W-C340-PCC.IES

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	7298.588	7298.588	7298.588	7298.588	7298.588	7298.588	7298.588	7298.588	7298.588	7298.588
5	7819.318	7815.107	7750.867	7539.192	7426.511	6962.091	6748.309	6602.980	6534.528	6669.326
10	8242.668	8225.819	8063.639	7743.495	7412.819	6610.352	6082.746	5692.042	5550.926	5788.929
15	8541.750	8524.900	8301.642	7847.752	7329.625	6261.773	5306.606	4769.522	4576.802	4819.018
20	8830.302	8815.558	8453.289	7879.345	7137.959	5767.867	4678.953	3942.832	3751.166	4042.877
25	9157.817	9009.329	8543.857	7859.337	6892.585	5199.190	3950.204	3221.454	2950.805	3265.685
30	9906.577	9334.739	8559.653	7742.442	6570.334	4634.724	3312.022	2568.527	2488.491	2633.820
35	11509.410	10534.230	8488.041	7593.954	6288.102	4122.913	2717.017	2095.788	1827.141	2100.211
40	11846.400	11351.440	8397.474	7567.627	6212.277	3675.343	2267.340	1460.764	1415.375	1424.537
45	10942.830	11295.630	8779.752	7698.212	6437.643	3435.235	1672.438	1252.776	1280.578	1202.121
50	9364.227	10465.780	10759.590	8069.959	6680.910	3260.419	1274.575	1367.248	1749.211	1212.863
55	7315.934	9162.030	12357.160	8429.068	7310.668	3107.718	1098.391	1860.839	2315.782	1677.178
60	3109.825	6519.786	11267.190	10144.580	10147.740	3224.613	988.130	1793.757	1828.193	1562.915
65	984.655	2299.985	8558.601	13653.530	13174.370	4423.050	884.400	1070.061	1108.184	1006.138
70	690.838	959.380	6427.110	17190.920	13460.810	4618.926	801.519	851.015	1356.191	749.075
75	319.934	550.774	2226.268	9122.011	2587.483	1801.550	1092.071	1453.709	2055.137	1207.281
80	194.192	209.463	826.690	1331.127	544.456	506.123	941.268	1323.123	1197.698	1218.130
85	57.710	63.292	146.908	146.698	88.882	93.622	318.249	403.972	363.742	339.206
90	1.684	1.790	3.792	4.844	3.265	10.952	8.951	7.266	6.318	7.478
95	1.158	1.158	1.475	1.263	2.317	13.796	8.214	3.371	2.317	3.580
100	1.263	1.263	1.263	1.475	2.738	16.640	10.531	4.318	2.632	4.422
105	1.369	1.475	1.369	1.790	3.265	18.535	13.480	6.318	3.897	6.530
110	1.580	1.790	1.684	1.896	3.686	17.692	13.375	8.108	5.476	8.214
115	1.790	1.896	2.001	2.001	3.792	17.270	13.480	10.320	7.478	10.110
120	2.317	2.317	2.423	2.949	5.370	14.323	11.794	10.320	8.951	10.110
125	3.580	2.949	2.632	3.159	4.844	10.952	10.425	10.531	10.110	10.742
130	6.951	4.001	3.371	4.634	9.268	8.530	9.056	10.846	17.587	10.952
135	8.108	5.266	4.422	6.003	10.216	8.635	9.583	12.321	20.852	12.111
140	8.004	6.530	6.003	8.004	11.268	11.689	12.637	15.901	21.377	15.480
145	8.741	8.741	8.951	10.952	13.690	15.480	17.061	20.008	22.537	19.693
150	11.268	12.215	12.954	15.059	17.587	20.220	21.799	24.959	25.907	24.959
155	14.323	16.218	17.482	19.061	21.062	24.433	26.644	29.276	29.488	30.118
160	19.378	20.852	22.746	23.273	25.275	29.066	32.120	32.856	32.647	33.068
165	25.169	26.432	27.380	27.171	28.434	32.752	34.331	33.068	33.595	34.121
170	27.486	27.486	28.223	28.434	29.697	31.909	32.226	31.699	31.487	31.487
175	28.434	28.961	29.066	28.961	29.697	31.066	30.961	30.539	30.013	29.066
180	29.785	29.785	29.785	29.785	29.785	29.785	29.785	29.785	29.785	29.785

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	7298.588	7298.588	7298.588	7298.588	7298.588	7298.588	7298.588
5	6879.948	7045.285	7394.916	7411.766	7610.803	7790.884	7819.318
10	6183.843	6734.619	7314.881	7533.927	7913.046	8173.162	8242.668
15	5444.563	6341.810	7239.058	7660.299	8149.994	8475.404	8541.750
20	4721.079	5852.115	7042.126	7656.086	8296.377	8700.769	8830.302
25	4060.780	5348.730	6826.239	7685.574	8362.722	8922.975	9157.817
30	3397.322	4770.575	6520.838	7589.741	8356.404	9169.402	9906.577
35	2780.203	4209.268	6264.932	7484.431	8284.792	10220.400	11509.410
40	2221.003	3805.928	6204.905	7462.315	8192.119	11018.660	11846.400
45	1729.833	3572.139	6278.624	7533.927	8479.617	11000.750	10942.830
50	1318.912	3409.960	6437.643	7662.406	10400.480	10135.100	9364.227
55	1085.016	3255.154	7009.479	7995.188	12008.580	8780.806	7315.934
60	961.065	3508.952	9695.955	9636.980	10545.810	6088.010	3109.825

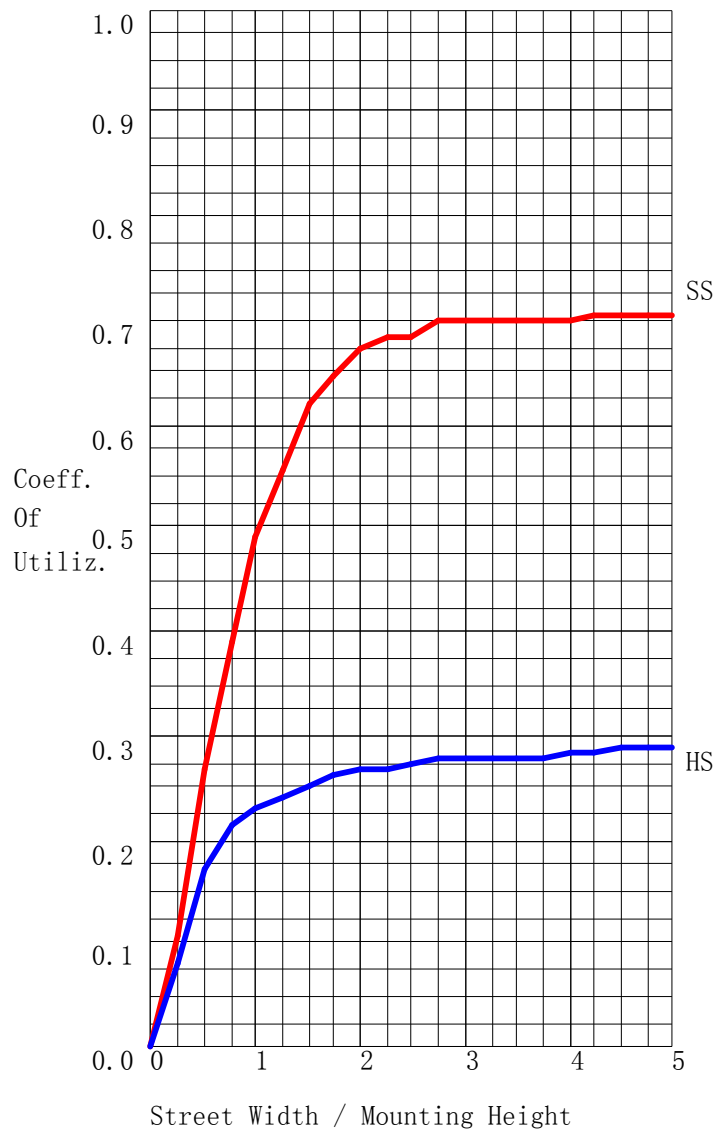
IES ROAD REPORT
PHOTOMETRIC FILENAME : FL23-240W-C340-PCC.IES

CANDELA TABULATION - (Cont.)

65	852.490	4544.156	12758.390	12854.220	7764.558	2242.065	984.655
70	841.328	4508.350	12358.210	16021.970	5796.301	900.407	690.838
75	1109.658	1377.991	2027.020	6404.996	1974.575	547.615	319.934
80	604.694	354.371	524.763	992.027	748.760	203.145	194.192
85	175.553	75.086	106.575	107.100	137.746	67.188	57.710
90	8.847	11.794	9.268	4.213	3.265	2.106	1.684
95	9.268	15.692	12.111	1.475	1.263	1.263	1.158
100	11.373	18.218	15.692	1.684	1.369	1.475	1.263
105	13.902	19.587	18.324	1.896	1.054	1.475	1.369
110	14.217	18.851	17.797	1.790	1.580	1.790	1.580
115	14.323	17.797	16.955	2.001	1.580	2.001	1.790
120	13.058	15.059	14.217	2.949	2.106	2.317	2.317
125	11.373	11.689	11.373	2.844	2.317	2.844	3.580
130	9.268	8.847	9.794	4.001	3.053	4.001	6.951
135	9.373	8.530	8.108	4.844	4.107	5.161	8.108
140	12.742	11.585	10.846	6.845	5.582	6.318	8.004
145	17.166	16.007	14.638	9.477	8.108	8.425	8.741
150	22.116	20.747	18.745	13.163	11.689	11.479	11.268
155	27.592	25.802	23.485	17.270	16.007	15.480	14.323
160	32.647	30.224	28.328	21.273	21.377	19.904	19.378
165	35.490	33.489	32.226	25.380	25.696	24.854	25.169
170	31.804	32.120	32.435	27.697	27.486	27.171	27.486
175	29.488	30.224	31.699	29.488	28.749	28.434	28.434
180	29.785	29.785	29.785	29.785	29.785	29.785	29.785

IES ROAD REPORT
PHOTOMETRIC FILENAME : FL23-240W-C340-PCC.IES

COEFFICIENTS OF UTILIZATION

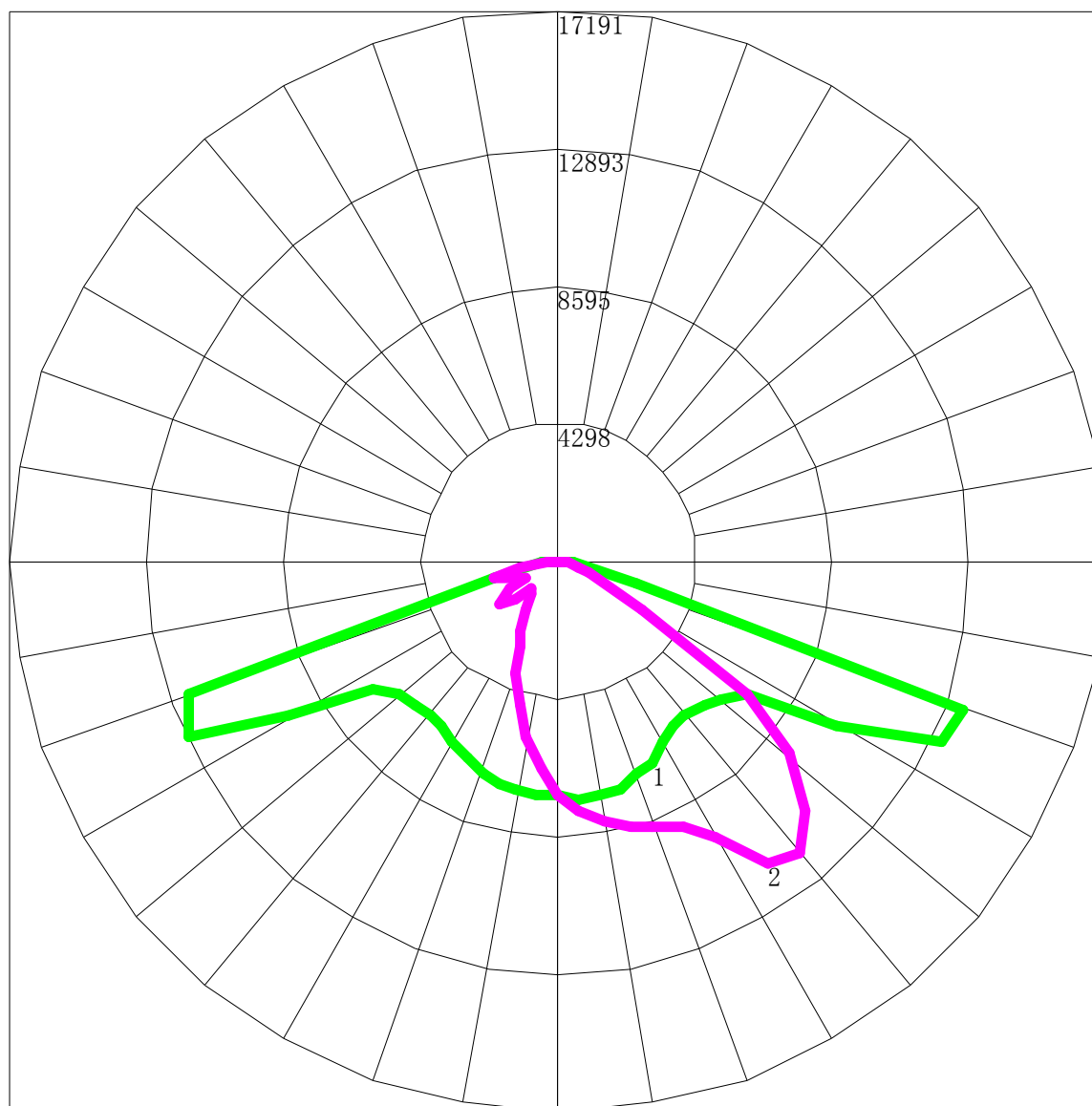


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	19572.1	70.5
Downward House Side	8122.8	29.3
Downward Total	27694.9	99.8
Upward Street Side	20.4	0.1
Upward House Side	43.9	0.2
Upward Total	64.3	0.2
Total Flux	27759.2	100.0

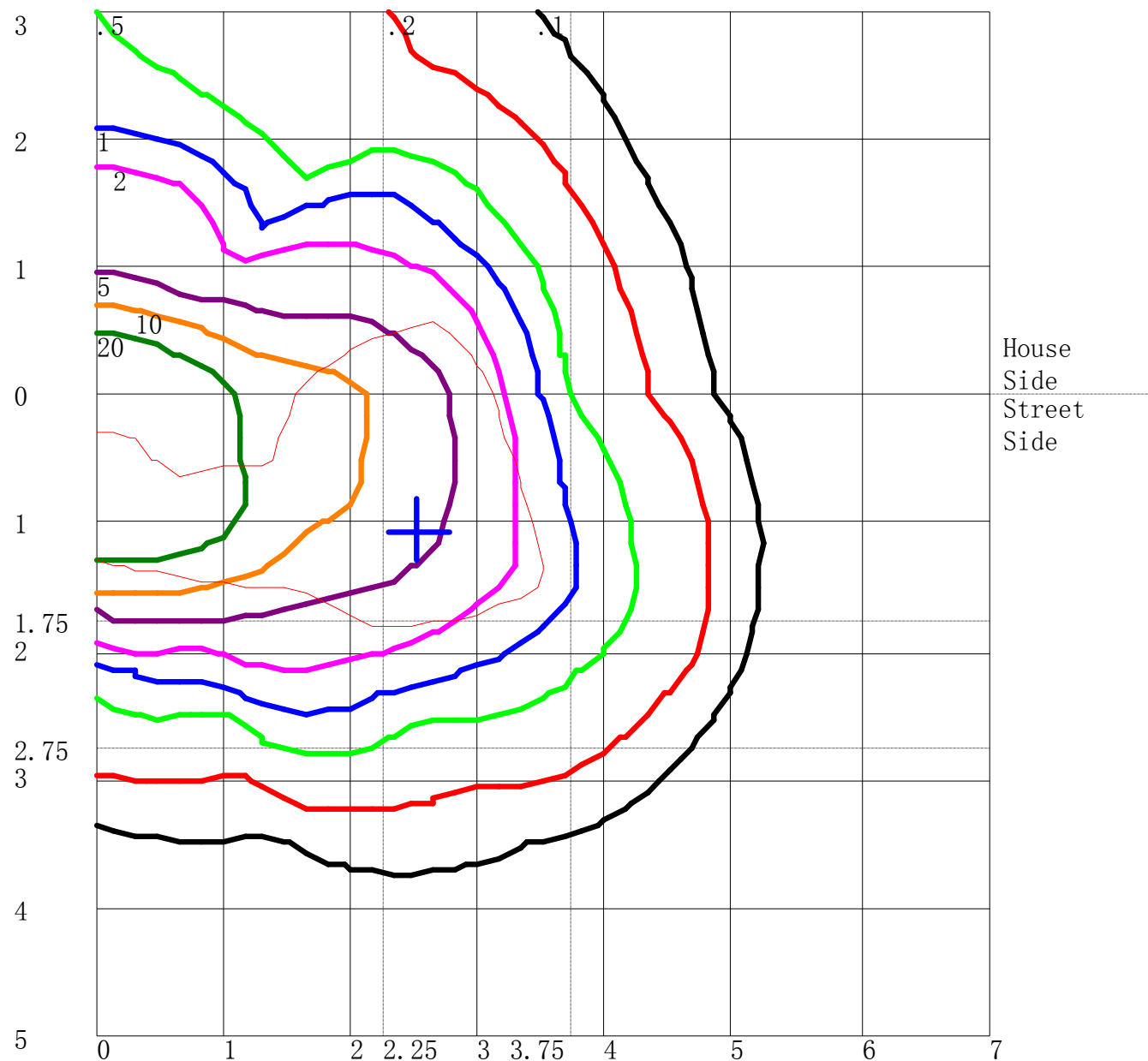
IES ROAD REPORT
PHOTOMETRIC FILENAME : FL23-240W-C340-PCC.IES

POLAR GRAPH



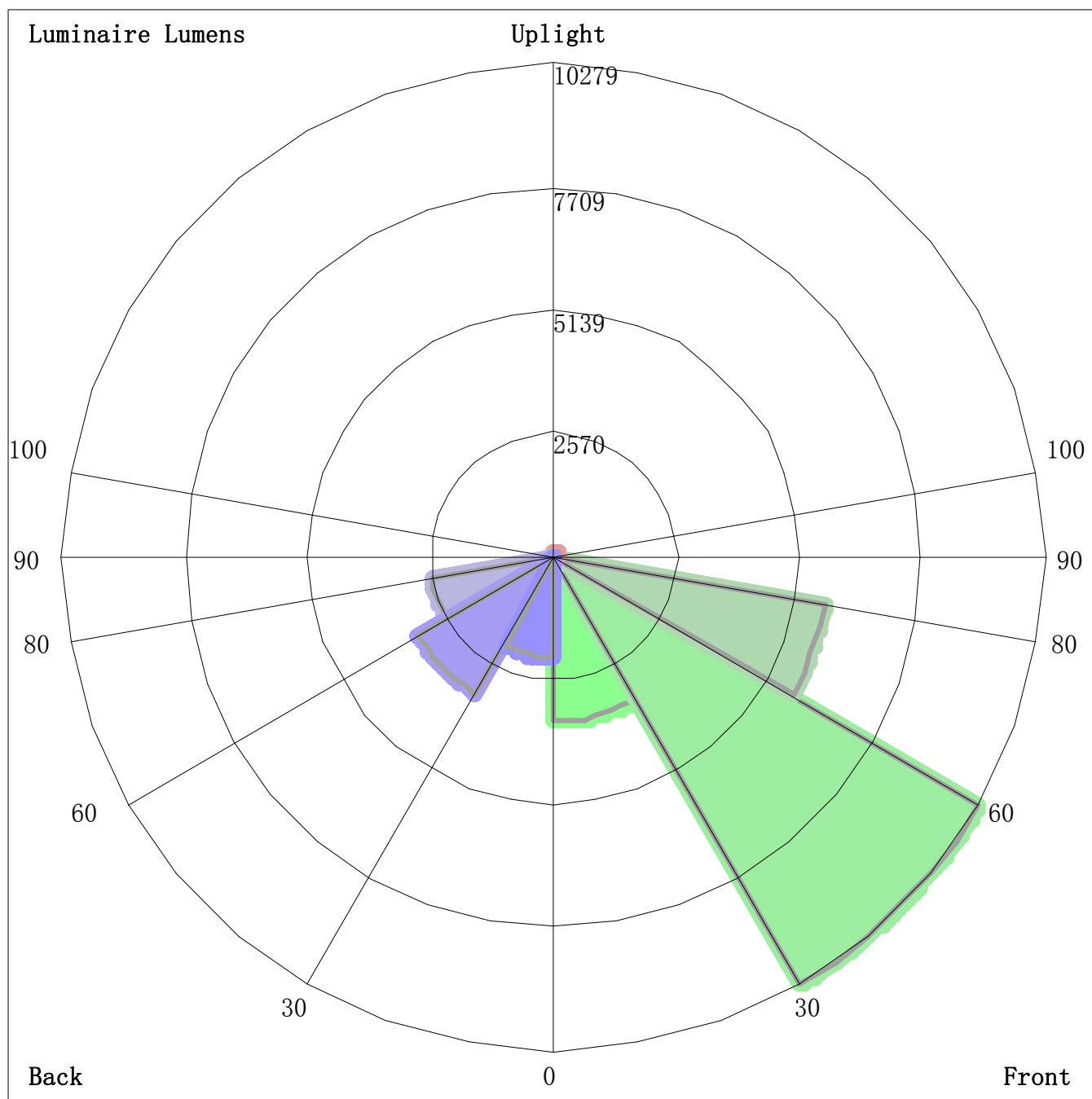
Maximum Candela = 17190.92 Located At Horizontal Angle = 67.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Vertical Plane Through Horizontal Angles (0 - 180)

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=3437.2, Medium=10278.7, High= 5742.0, Very High=114.2
Back: Low= 2112.0, Medium=3259.5, High=2572.9, Very High=178.3
Uplight: Low=6.0, High=58.3

BUG Rating : B4-U3-G4