

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : FL23-300W-C240-PCC.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IIESNA: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] FL23-300W-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	34441
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	315
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24107.51
Maximum Candela Angle	67.5H 70V
Maximum Candela (<90 Degrees Vertical)	24107.51
Maximum Candela Angle (<90 Degrees Vertical)	67.5H 70V
Maximum Candela At 90 Degrees Vertical	12.195 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1537.884 (4.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	4266.9	N.A.	12.4
FM - Front-Medium (30-60)	13588.4	N.A.	39.5
FH - Front-High (60-80)	6416.0	N.A.	18.6
FVH - Front-Very High (80-90)	89.6	N.A.	0.3
BL - Back-Low (0-30)	2530.8	N.A.	7.3
BM - Back-Medium (30-60)	4135.6	N.A.	12.0
BH - Back-High (60-80)	3150.0	N.A.	9.1
BVH - Back-Very High (80-90)	186.6	N.A.	0.5
UL - Uplight-Low (90-100)	6.3	N.A.	0.0
UH - Uplight-High (100-180)	71.0	N.A.	0.2
Total	34441.2	N.A.	100.0
BUG Rating	B4-U3-G4		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : FL23-300W-C240-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	8908.139	8908.139	8908.139	8908.139	8908.139	8908.139	8908.139	8908.139	8908.139	8908.139
5	9586.267	9644.591	9513.364	9220.420	9021.590	8454.261	8244.826	8047.321	7930.673	8116.250
10	10156.250	10214.570	9965.370	9526.618	9012.309	8053.950	7369.973	6872.898	6658.161	7047.867
15	10506.190	10563.190	10274.220	9705.565	8959.288	7600.615	6407.635	5633.523	5381.670	5783.307
20	10769.970	10808.410	10451.840	9765.215	8751.180	7027.985	5512.899	4624.790	4289.429	4757.343
25	11406.220	11058.930	10469.070	9733.402	8451.608	6289.663	4671.185	3657.150	3307.209	3755.239
30	14273.360	12844.430	10458.470	9610.128	8114.923	5576.525	3830.795	2792.901	2580.947	2877.735
35	15860.020	15195.930	10491.610	9545.175	7890.908	4961.477	3081.867	2197.604	1829.636	2163.008
40	15080.610	15646.610	11492.390	9607.475	8007.555	4505.493	2447.070	1637.830	1592.232	1562.672
45	13517.800	14607.390	14694.880	10051.530	8464.866	4269.547	1864.099	1450.003	1536.560	1376.701
50	10584.390	13100.260	18171.760	10520.770	9111.727	4192.666	1477.573	1794.907	2237.900	1600.848
55	5994.068	9744.005	16256.360	11569.270	11516.250	4072.042	1285.371	1841.698	2348.052	1684.755
60	1694.034	4074.694	12067.670	15795.070	16195.380	5108.612	1145.792	1742.548	1687.538	1524.498
65	1116.099	1532.318	8646.463	21449.801	20699.539	6723.111	1053.269	1171.376	1176.412	1093.567
70	687.953	955.709	3777.773	24107.510	13150.630	6154.458	1024.638	954.649	1507.397	844.897
75	344.904	426.159	2053.253	4876.643	1796.100	1568.903	1576.856	1626.034	2342.485	1447.617
80	211.688	207.445	767.485	833.762	399.118	356.966	859.875	1537.884	1424.685	1416.600
85	60.444	62.697	152.570	93.716	86.424	86.027	248.803	497.474	481.965	435.307
90	1.856	1.856	3.049	3.049	3.180	11.399	10.472	8.882	7.159	7.159
95	1.457	1.457	1.723	1.590	3.049	14.182	7.159	3.313	2.783	3.579
100	1.723	1.590	1.590	1.856	3.579	18.955	10.206	3.843	2.519	3.712
105	1.723	1.723	1.856	2.386	4.772	23.461	13.652	5.436	3.446	5.436
110	1.989	2.120	2.120	2.650	5.036	23.461	15.642	7.556	4.772	7.290
115	2.253	2.253	2.253	2.650	4.906	22.800	16.835	10.339	7.159	10.339
120	3.049	2.783	3.049	3.712	7.026	19.751	15.375	11.665	9.013	11.399
125	3.976	3.313	3.049	3.976	6.496	15.375	13.521	12.328	10.869	12.062
130	8.086	4.639	3.976	5.966	11.798	11.266	11.532	12.592	17.629	12.989
135	9.013	5.700	5.170	7.290	13.255	10.736	11.798	14.845	22.401	15.245
140	9.279	7.423	7.423	9.412	13.918	14.051	15.642	19.088	24.787	19.221
145	10.339	10.206	10.339	13.255	16.569	18.955	20.811	24.257	27.837	24.257
150	13.521	14.712	15.509	18.028	21.208	24.124	26.644	30.753	32.476	31.283
155	17.762	20.015	21.208	23.330	26.114	29.824	32.873	36.850	37.247	37.646
160	23.860	25.584	27.970	28.500	30.753	35.126	39.103	40.032	41.225	41.755
165	27.970	28.631	29.957	30.620	32.476	38.573	41.092	40.429	41.225	41.622
170	32.343	32.476	32.476	33.139	34.862	37.513	37.116	36.586	36.983	37.380
175	33.536	33.669	33.536	33.669	34.993	37.513	36.983	36.717	36.717	35.923
180	36.047	36.047	36.047	36.047	36.047	36.047	36.047	36.047	36.047	36.047

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	8908.139	8908.139	8908.139	8908.139	8908.139	8908.139	8908.139
5	8349.542	8606.698	8996.404	9032.193	9372.857	9616.754	9586.267
10	7560.849	8234.221	8960.614	9229.699	9722.797	10116.480	10156.250
15	6591.885	7780.889	8841.317	9408.646	10015.740	10473.050	10506.190
20	5642.802	7163.190	8687.553	9462.993	10199.990	10702.370	10769.970
25	4786.506	6481.866	8368.100	9469.620	10219.870	10910.470	11406.220
30	3967.326	5801.865	8095.042	9445.760	10182.760	12482.560	14273.360
35	3164.051	5131.146	7886.931	9413.946	10177.460	14669.690	15860.020
40	2470.135	4748.066	8142.760	9546.499	11157.030	15193.280	15080.610
45	1925.736	4579.722	8460.887	9907.047	14875.150	14348.910	13517.800
50	1495.468	4478.982	9053.403	10340.500	17722.400	12726.460	10584.390
55	1266.283	4510.795	11994.760	11777.380	15043.490	9413.946	5994.068
60	1128.824	6051.066	16624.859	16339.870	10499.560	3890.444	1694.034

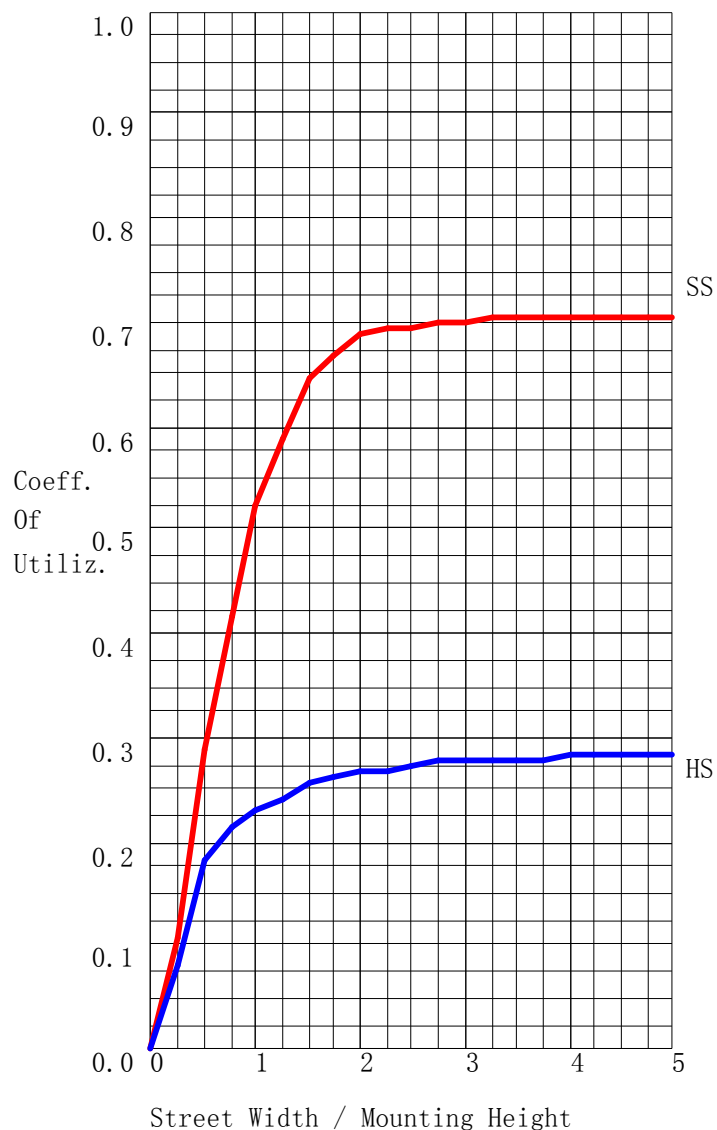
**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : FL23-300W-C240-PCC.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	1035.374	7096.912	20508.660	21740.100	7772.936	1455.436	1116.099
<b>70</b>	1430.119	4614.187	7237.420	19812.770	3495.436	929.199	687.953
<b>75</b>	1442.447	867.961	1189.401	2140.739	1869.005	409.457	344.904
<b>80</b>	617.434	232.102	301.691	693.254	699.882	196.046	211.688
<b>85</b>	162.379	62.566	66.673	52.094	90.004	56.998	60.444
<b>90</b>	7.290	12.195	8.882	2.386	2.519	1.989	1.856
<b>95</b>	8.352	17.498	14.051	1.856	1.457	1.590	1.457
<b>100</b>	11.135	22.137	19.618	2.120	1.590	1.723	1.723
<b>105</b>	14.845	25.450	24.124	2.386	1.590	1.856	1.723
<b>110</b>	16.569	24.920	24.390	2.519	1.989	1.989	1.989
<b>115</b>	17.099	23.860	23.461	2.386	2.120	2.253	2.253
<b>120</b>	16.569	21.077	20.148	3.843	2.650	2.916	3.049
<b>125</b>	14.978	16.569	16.039	3.712	2.916	3.579	3.976
<b>130</b>	12.195	12.195	13.388	5.170	3.579	4.772	8.086
<b>135</b>	12.328	11.266	12.062	6.893	4.906	5.700	9.013
<b>140</b>	16.172	14.978	14.581	9.013	6.760	7.026	9.279
<b>145</b>	22.004	20.281	18.425	12.195	9.412	9.676	10.339
<b>150</b>	28.500	25.981	23.197	16.569	13.785	13.785	13.521
<b>155</b>	34.729	31.813	29.294	21.208	19.485	18.425	17.762
<b>160</b>	40.959	36.983	34.993	26.247	25.848	24.124	23.860
<b>165</b>	41.886	40.032	38.970	29.427	29.693	28.367	27.970
<b>170</b>	37.646	38.706	39.502	32.873	32.077	31.946	32.343
<b>175</b>	36.187	37.247	39.502	34.463	33.536	33.270	33.536
<b>180</b>	36.047	36.047	36.047	36.047	36.047	36.047	36.047

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : FL23-300W-C240-PCC.IES**

**COEFFICIENTS OF UTILIZATION**

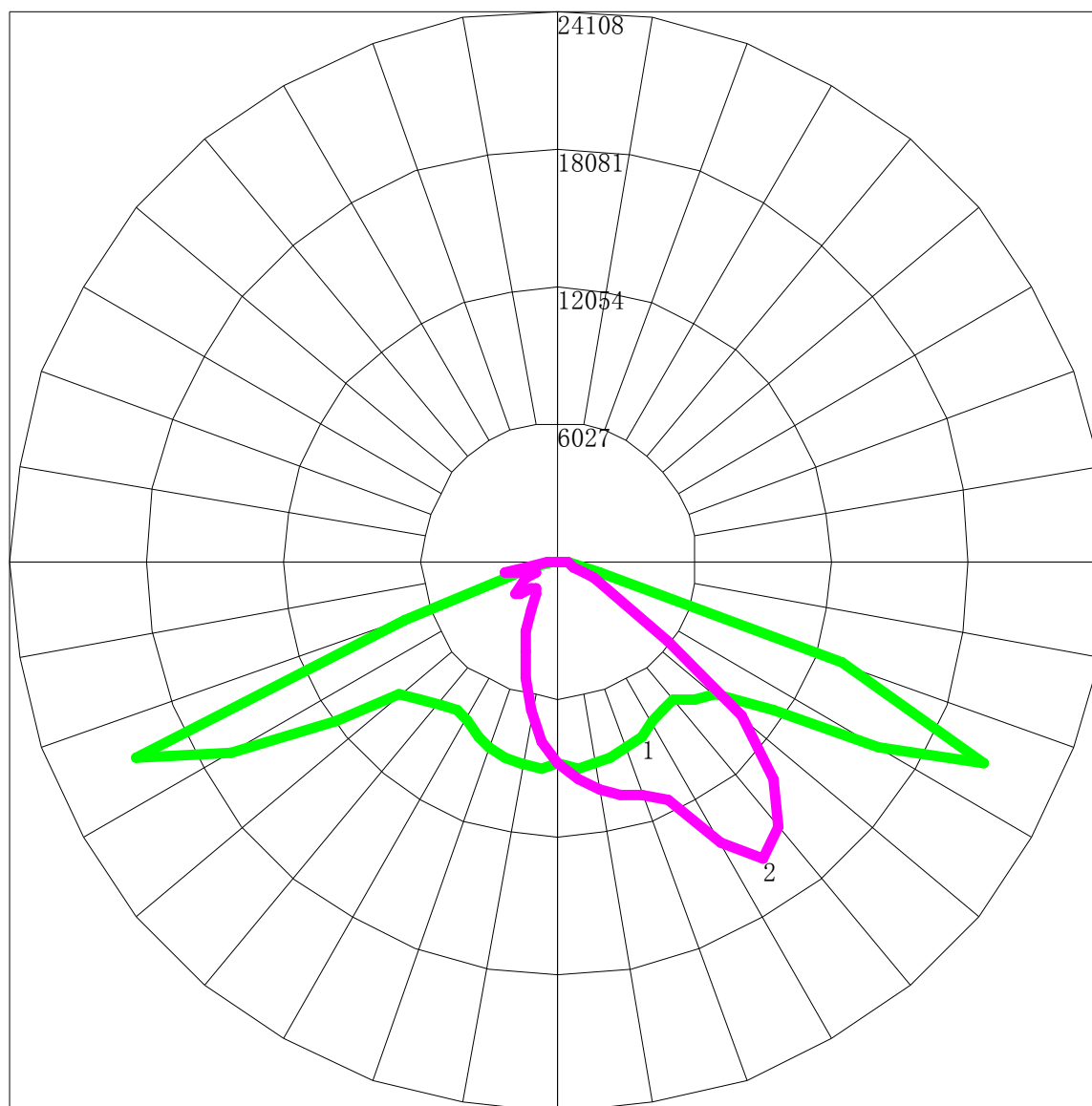


**FLUX DISTRIBUTION**

	Lumens	Percent Of Luminaire
Downward Street Side	24361.0	70.7
Downward House Side	10003.0	29.0
Downward Total	34364.0	99.8
Upward Street Side	24.7	0.1
Upward House Side	52.7	0.2
Upward Total	77.4	0.2
Total Flux	34441.4	100.0

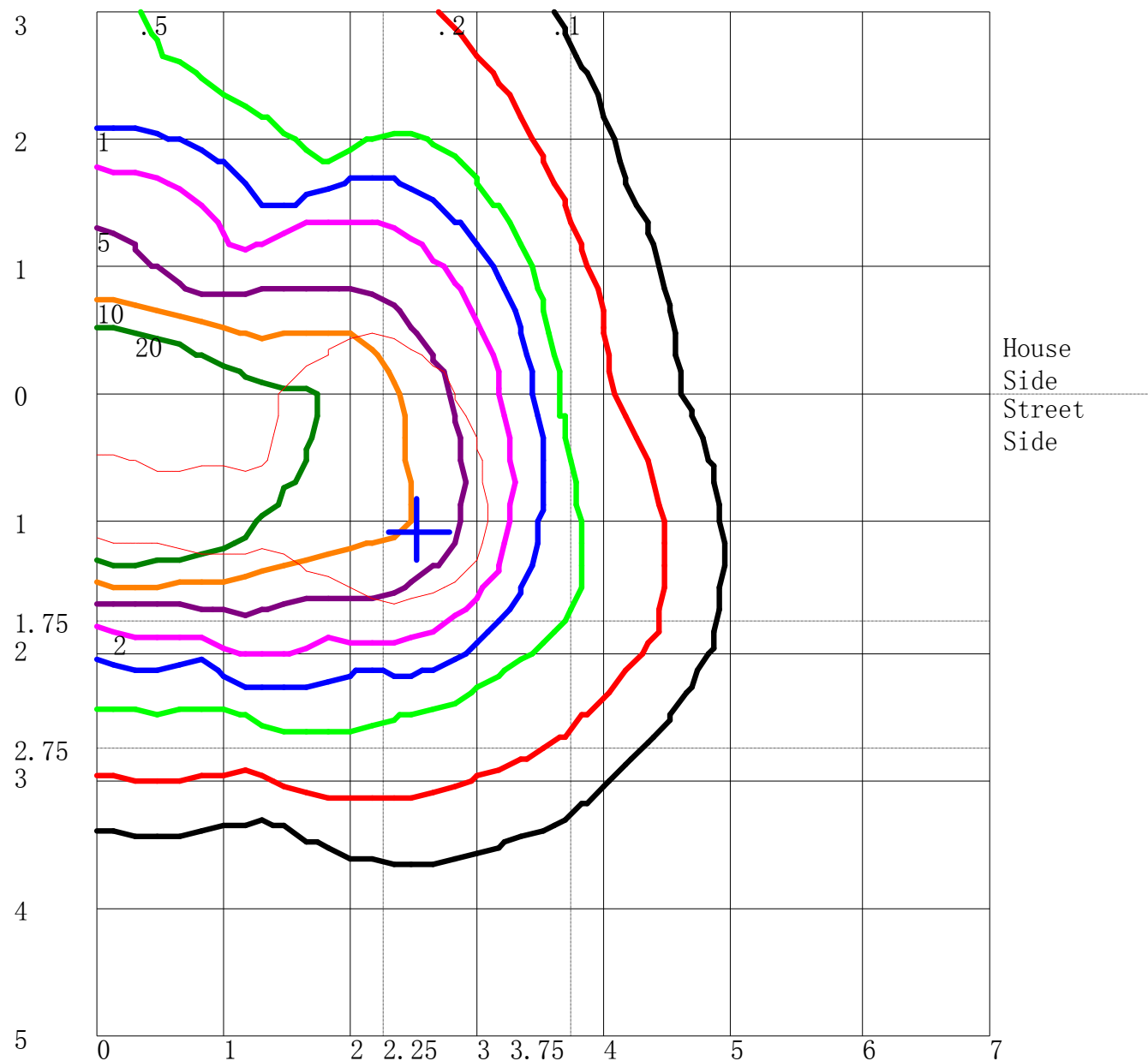
IES ROAD REPORT  
PHOTOMETRIC FILENAME : FL23-300W-C240-PCC.IES

POLAR GRAPH



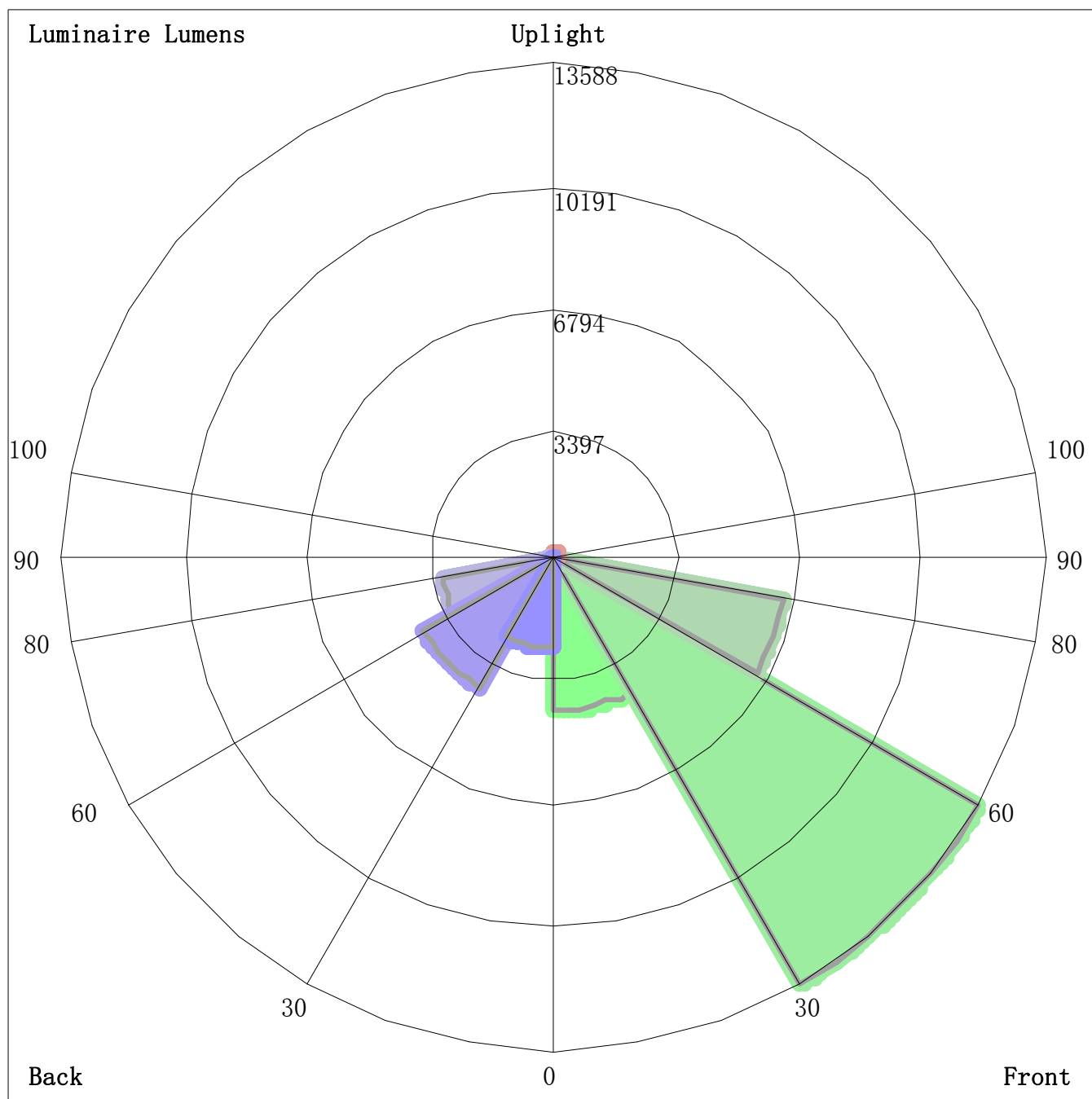
Maximum Candela = 24107.51 Located At Horizontal Angle = 67.5, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)

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=4266.9, Medium=13588.4, High= 6416.0, Very High=89.6  
Back: Low=2530.8, Medium=4135.6, High= 3150.0, Very High=186.6  
Uplight: Low=6.3, High=71.0

BUG Rating : B4-U3-G4