

IES ROAD REPORT
PHOTOMETRIC FILENAME : FL23-240W-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] FL23-240W-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	27553
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	252
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19286.01
Maximum Candela Angle	67.5H 70V
Maximum Candela (<90 Degrees Vertical)	19286.01
Maximum Candela Angle (<90 Degrees Vertical)	67.5H 70V
Maximum Candela At 90 Degrees Vertical	9.756 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1230.307 (4.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3413.5	N.A.	12.4
FM - Front-Medium (30-60)	10870.7	N.A.	39.5
FH - Front-High (60-80)	5132.8	N.A.	18.6
FVH - Front-Very High (80-90)	71.7	N.A.	0.3
BL - Back-Low (0-30)	2024.6	N.A.	7.3
BM - Back-Medium (30-60)	3308.5	N.A.	12.0
BH - Back-High (60-80)	2520.0	N.A.	9.1
BVH - Back-Very High (80-90)	149.2	N.A.	0.5
UL - Uplight-Low (90-100)	5.1	N.A.	0.0
UH - Uplight-High (100-180)	56.8	N.A.	0.2
Total	27552.9	N.A.	100.0
BUG Rating	B4-U3-G4		

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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	7126.512	7126.512	7126.512	7126.512	7126.512	7126.512	7126.512	7126.512	7126.512	7126.512
5	7669.014	7715.673	7610.691	7376.336	7217.272	6763.409	6595.861	6437.857	6344.539	6493.000
10	8124.998	8171.657	7972.296	7621.294	7209.847	6443.160	5895.978	5498.318	5326.529	5638.294
15	8404.950	8450.550	8219.375	7764.452	7167.430	6080.492	5126.108	4506.818	4305.336	4626.646
20	8615.975	8646.729	8361.472	7812.172	7000.944	5622.388	4410.319	3699.832	3431.544	3805.875
25	9124.980	8847.148	8375.259	7786.721	6761.287	5031.730	3736.948	2925.720	2645.768	3004.191
30	11418.690	10275.550	8366.775	7688.102	6491.939	4461.220	3064.636	2234.321	2064.758	2302.188
35	12688.020	12156.740	8393.286	7636.140	6312.726	3969.182	2465.494	1758.083	1463.709	1730.406
40	12064.490	12517.290	9193.909	7685.980	6406.044	3604.394	1957.656	1310.264	1273.785	1250.137
45	10814.240	11685.910	11755.900	8041.223	6771.893	3415.638	1491.279	1160.002	1229.248	1101.360
50	8467.516	10480.210	14537.400	8416.615	7289.382	3354.133	1182.059	1435.925	1790.320	1280.678
55	4795.254	7795.204	13005.090	9255.414	9212.997	3257.634	1028.297	1473.358	1878.441	1347.804
60	1355.227	3259.756	9654.134	12636.060	12956.300	4086.889	916.634	1394.039	1350.030	1219.598
65	892.879	1225.854	6917.171	17159.840	16559.631	5378.489	842.615	937.100	941.130	874.854
70	550.363	764.568	3022.219	19286.010	10520.500	4923.566	819.711	763.719	1205.918	675.917
75	275.923	340.927	1642.602	3901.314	1436.880	1255.123	1261.485	1300.827	1873.988	1158.093
80	169.350	165.956	613.988	667.009	319.294	285.573	687.900	1230.307	1139.748	1133.280
85	48.355	50.158	122.056	74.973	69.140	68.822	199.043	397.979	385.572	348.245
90	1.485	1.485	2.439	2.439	2.544	9.119	8.378	7.106	5.727	5.727
95	1.166	1.166	1.379	1.272	2.439	11.346	5.727	2.651	2.227	2.863
100	1.379	1.272	1.272	1.485	2.863	15.164	8.165	3.075	2.015	2.970
105	1.379	1.379	1.485	1.909	3.818	18.769	10.922	4.348	2.757	4.348
110	1.591	1.696	1.696	2.120	4.029	18.769	12.513	6.045	3.818	5.832
115	1.803	1.803	1.803	2.120	3.924	18.240	13.468	8.271	5.727	8.271
120	2.439	2.227	2.439	2.970	5.621	15.801	12.300	9.332	7.210	9.119
125	3.181	2.651	2.439	3.181	5.197	12.300	10.817	9.863	8.695	9.650
130	6.469	3.712	3.181	4.772	9.439	9.013	9.226	10.074	14.103	10.391
135	7.210	4.560	4.136	5.832	10.604	8.589	9.439	11.876	17.921	12.196
140	7.423	5.938	5.938	7.530	11.135	11.241	12.513	15.270	19.830	15.377
145	8.271	8.165	8.271	10.604	13.255	15.164	16.649	19.406	22.269	19.406
150	10.817	11.770	12.407	14.422	16.966	19.299	21.315	24.602	25.981	25.026
155	14.209	16.012	16.966	18.664	20.891	23.859	26.299	29.480	29.797	30.117
160	19.088	20.467	22.376	22.800	24.602	28.101	31.282	32.026	32.980	33.404
165	22.376	22.905	23.966	24.496	25.981	30.858	32.874	32.343	32.980	33.298
170	25.875	25.981	25.981	26.511	27.890	30.010	29.693	29.268	29.586	29.904
175	26.829	26.935	26.829	26.935	27.995	30.010	29.586	29.373	29.373	28.738
180	28.838	28.838	28.838	28.838	28.838	28.838	28.838	28.838	28.838	28.838

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	7126.512	7126.512	7126.512	7126.512	7126.512	7126.512	7126.512
5	6679.634	6885.358	7197.123	7225.755	7498.285	7693.403	7669.014
10	6048.679	6587.377	7168.491	7383.759	7778.237	8093.185	8124.998
15	5273.508	6224.711	7073.053	7526.917	8012.593	8378.440	8404.950
20	4514.241	5730.552	6950.043	7570.395	8159.992	8561.893	8615.975
25	3829.205	5185.493	6694.480	7575.696	8175.899	8728.380	9124.980
30	3173.861	4641.492	6476.033	7556.608	8146.206	9986.048	11418.690
35	2531.241	4104.917	6309.545	7531.157	8141.964	11735.750	12688.020
40	1976.108	3798.453	6514.208	7637.200	8925.620	12154.620	12064.490
45	1540.589	3663.777	6768.710	7925.637	11900.120	11479.130	10814.240
50	1196.375	3583.186	7242.723	8272.398	14177.920	10181.170	8467.516
55	1013.026	3608.636	9595.812	9421.900	12034.790	7531.157	4795.254
60	903.059	4840.853	13299.880	13071.890	8399.649	3112.356	1355.227

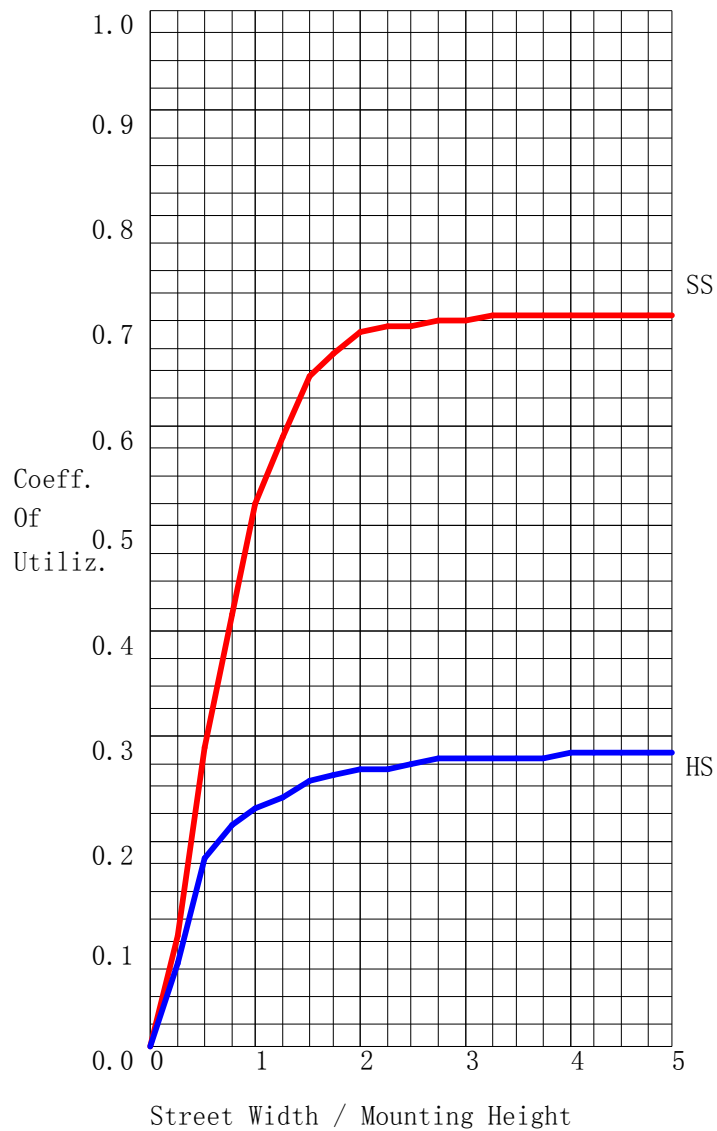
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PHOTOMETRIC FILENAME : FL23-240W-C240-PCC.IES

CANDELA TABULATION - (Cont.)

65	828.299	5677.530	16406.930	17392.080	6218.349	1164.349	892.879
70	1144.095	3691.350	5789.936	15850.210	2796.349	743.359	550.363
75	1153.958	694.369	951.521	1712.591	1495.204	327.566	275.923
80	493.948	185.681	241.353	554.603	559.906	156.837	169.350
85	129.903	50.053	53.339	41.675	72.003	45.598	48.355
90	5.832	9.756	7.106	1.909	2.015	1.591	1.485
95	6.681	13.998	11.241	1.485	1.166	1.272	1.166
100	8.908	17.710	15.694	1.696	1.272	1.379	1.379
105	11.876	20.360	19.299	1.909	1.272	1.485	1.379
110	13.255	19.936	19.512	2.015	1.591	1.591	1.591
115	13.679	19.088	18.769	1.909	1.696	1.803	1.803
120	13.255	16.862	16.118	3.075	2.120	2.333	2.439
125	11.983	13.255	12.831	2.970	2.333	2.863	3.181
130	9.756	9.756	10.711	4.136	2.863	3.818	6.469
135	9.863	9.013	9.650	5.514	3.924	4.560	7.210
140	12.937	11.983	11.665	7.210	5.408	5.621	7.423
145	17.603	16.225	14.740	9.756	7.530	7.741	8.271
150	22.800	20.784	18.558	13.255	11.028	11.028	10.817
155	27.784	25.450	23.435	16.966	15.588	14.740	14.209
160	32.767	29.586	27.995	20.997	20.678	19.299	19.088
165	33.509	32.026	31.176	23.542	23.754	22.693	22.376
170	30.117	30.965	31.602	26.299	25.662	25.557	25.875
175	28.949	29.797	31.602	27.571	26.829	26.616	26.829
180	28.838	28.838	28.838	28.838	28.838	28.838	28.838

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COEFFICIENTS OF UTILIZATION

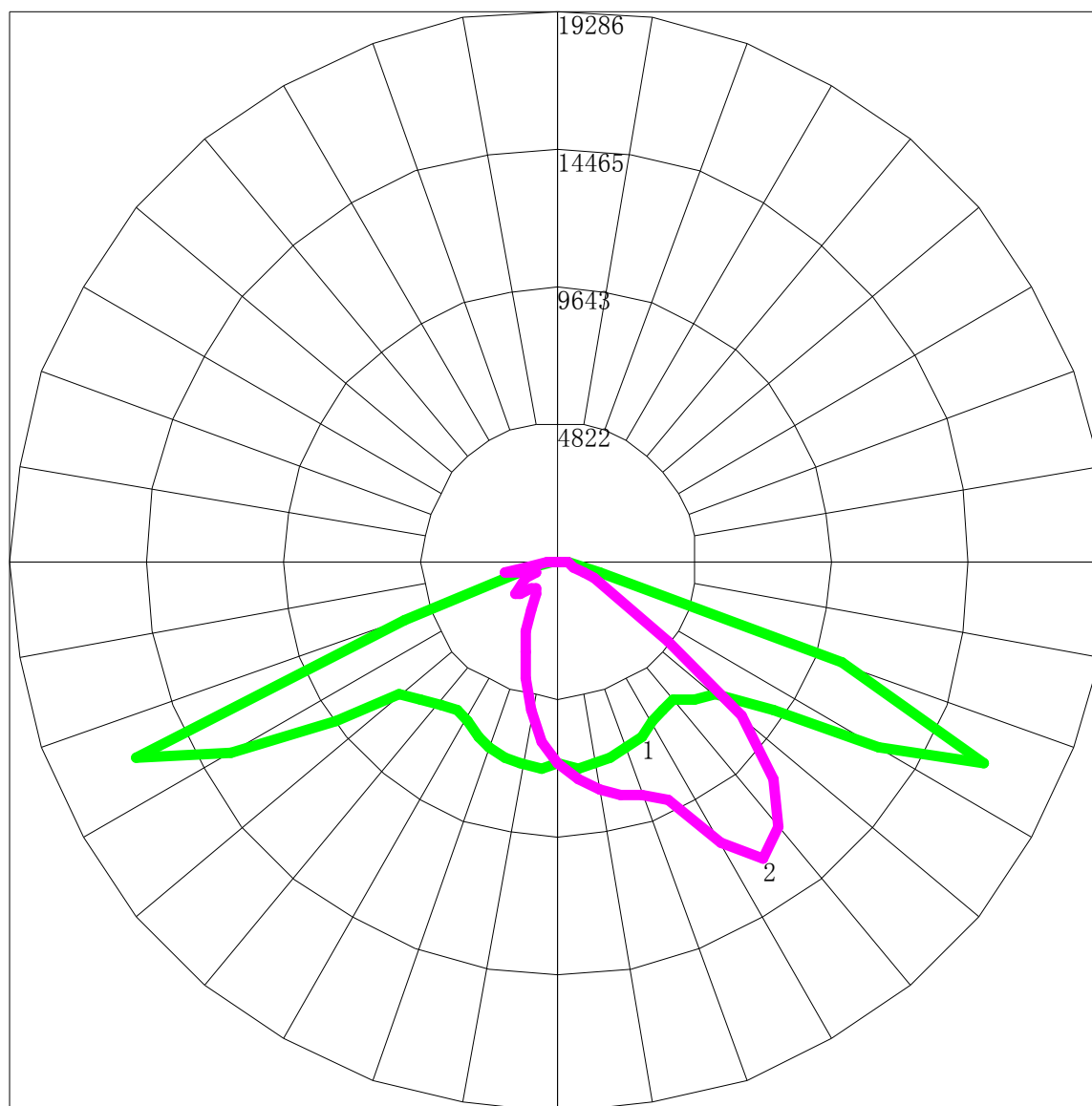


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	19488.8	70.7
Downward House Side	8002.4	29.0
Downward Total	27491.2	99.8
Upward Street Side	19.7	0.1
Upward House Side	42.1	0.2
Upward Total	61.8	0.2
Total Flux	27553.0	100.0

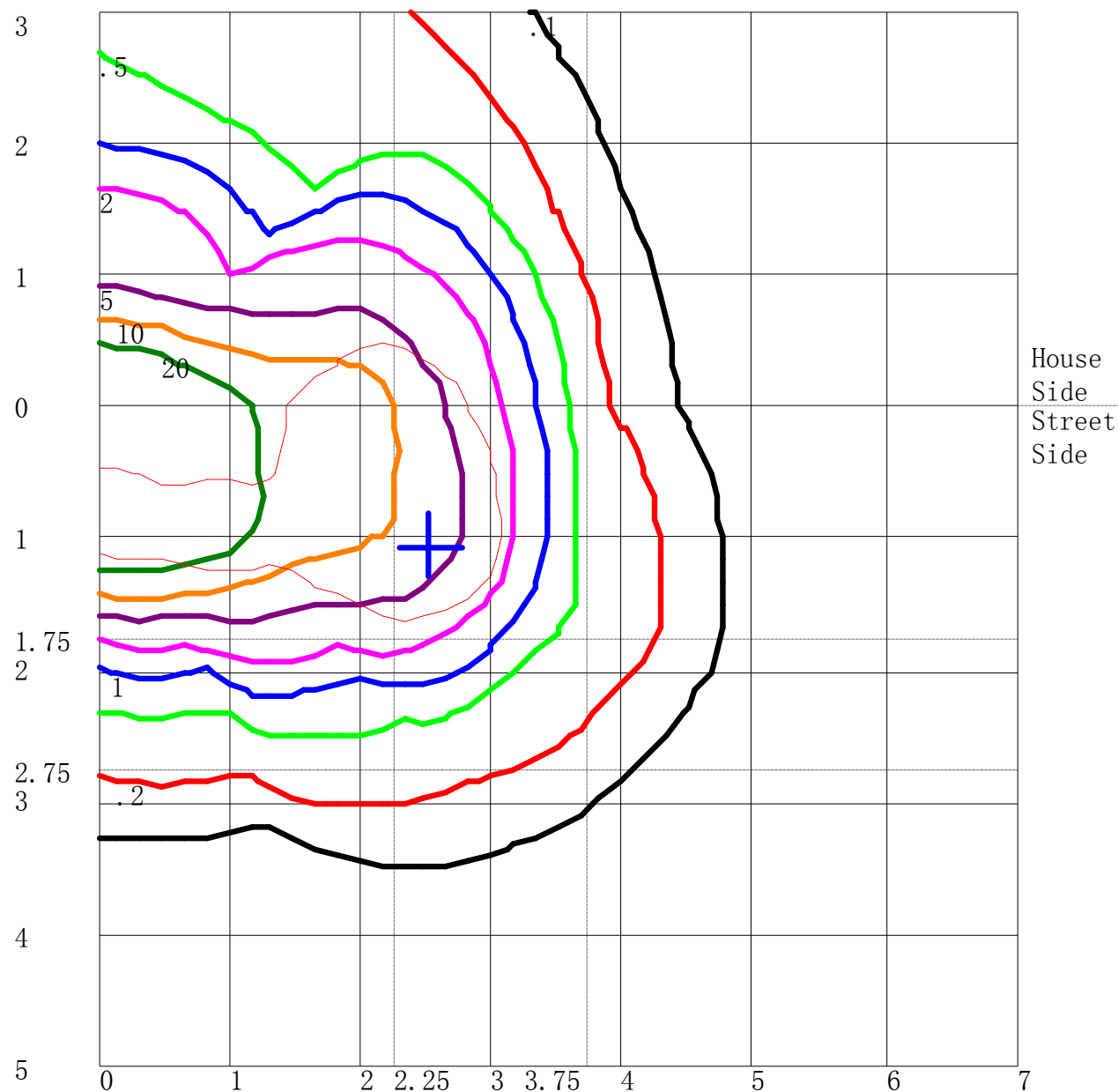
IES ROAD REPORT
PHOTOMETRIC FILENAME : FL23-240W-C240-PCC.IES

POLAR GRAPH



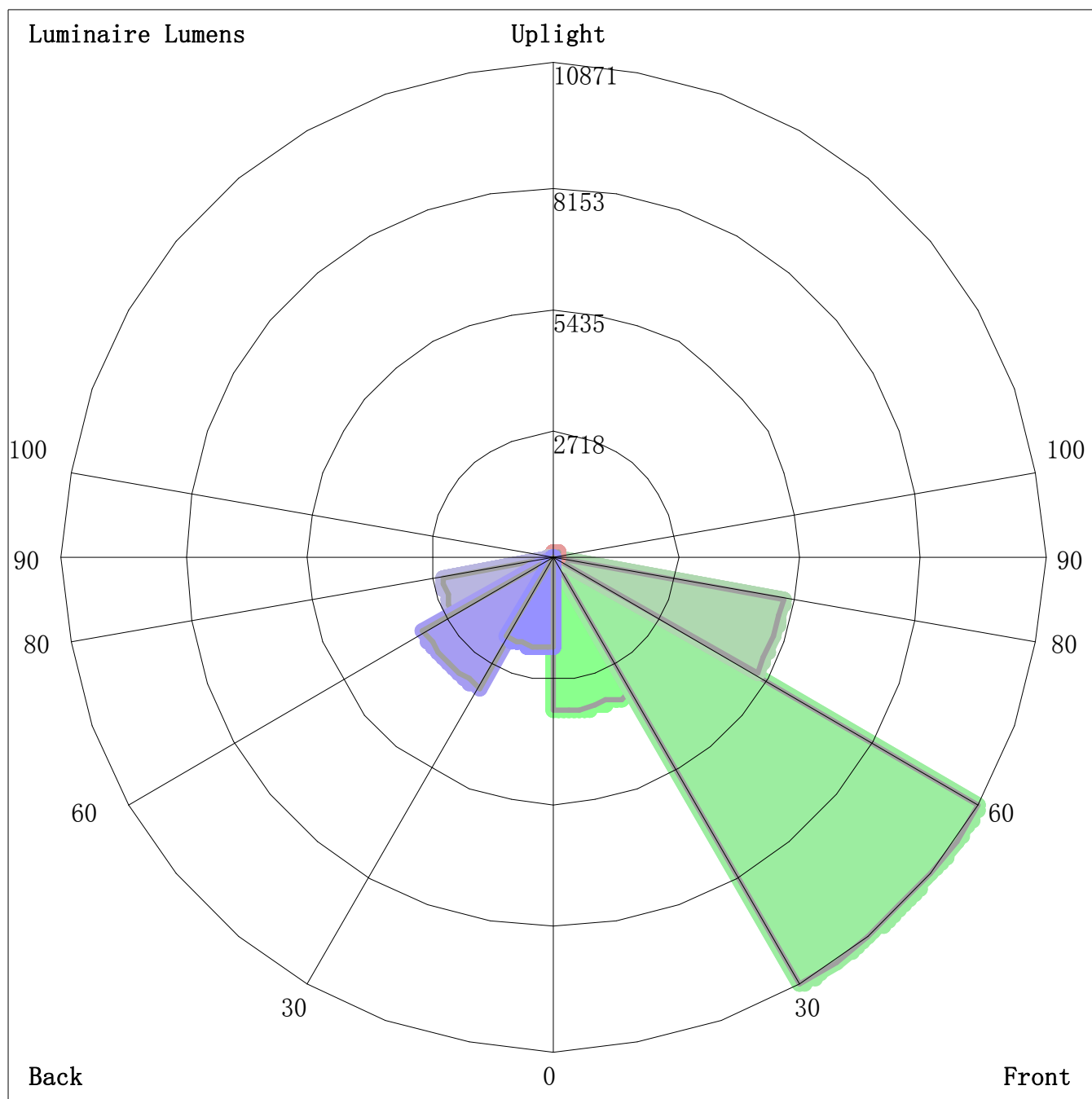
Maximum Candela = 19286.01 Located At Horizontal Angle = 67.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Vertical Plane Through Horizontal Angles (0 - 180)

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=3413.5, Medium=10870.7, High=5132.8, Very High=71.7

Back: Low=2024.6, Medium=3308.5, High= 2520.0, Very High=149.2

Uplight: Low=5.1, High=56.8

BUG Rating : B4-U3-G4