

IES ROAD REPORT
PHOTOMETRIC FILENAME : FL13-120W-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] FL13-120W-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	13777
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	126
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9643.003
Maximum Candela Angle	67.5H 70V
Maximum Candela (<90 Degrees Vertical)	9643.003
Maximum Candela Angle (<90 Degrees Vertical)	67.5H 70V
Maximum Candela At 90 Degrees Vertical	4.878 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	615.154 (4.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1706.7	N.A.	12.4
FM - Front-Medium (30-60)	5435.4	N.A.	39.5
FH - Front-High (60-80)	2566.4	N.A.	18.6
FVH - Front-Very High (80-90)	35.9	N.A.	0.3
BL - Back-Low (0-30)	1012.3	N.A.	7.3
BM - Back-Medium (30-60)	1654.3	N.A.	12.0
BH - Back-High (60-80)	1260.0	N.A.	9.1
BVH - Back-Very High (80-90)	74.6	N.A.	0.5
UL - Uplight-Low (90-100)	2.5	N.A.	0.0
UH - Uplight-High (100-180)	28.4	N.A.	0.2
Total	13776.5	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	3563.256	3563.256	3563.256	3563.256	3563.256	3563.256	3563.256	3563.256	3563.256	3563.256
5	3834.507	3857.836	3805.346	3688.168	3608.636	3381.704	3297.930	3218.928	3172.269	3246.500
10	4062.499	4085.828	3986.148	3810.647	3604.924	3221.580	2947.989	2749.159	2663.264	2819.147
15	4202.475	4225.275	4109.687	3882.226	3583.715	3040.246	2563.054	2253.409	2152.668	2313.323
20	4307.988	4323.364	4180.736	3906.086	3500.472	2811.194	2205.160	1849.916	1715.772	1902.937
25	4562.490	4423.574	4187.629	3893.361	3380.643	2515.865	1868.474	1462.860	1322.884	1502.096
30	5709.343	5137.773	4183.387	3844.051	3245.969	2230.610	1532.318	1117.160	1032.379	1151.094
35	6344.009	6078.372	4196.643	3818.070	3156.363	1984.591	1232.747	879.042	731.854	865.203
40	6032.243	6258.645	4596.954	3842.990	3203.022	1802.197	978.828	655.132	636.893	625.069
45	5407.122	5842.957	5877.951	4020.612	3385.946	1707.819	745.640	580.001	614.624	550.680
50	4233.758	5240.104	7268.702	4208.307	3644.691	1677.066	591.029	717.963	895.160	640.339
55	2397.627	3897.602	6502.543	4627.707	4606.498	1628.817	514.148	736.679	939.221	673.902
60	677.613	1629.878	4827.067	6318.028	6478.153	2043.445	458.317	697.019	675.015	609.799
65	446.440	612.927	3458.585	8579.919	8279.818	2689.245	421.308	468.550	470.565	437.427
70	275.181	382.284	1511.109	9643.003	5260.252	2461.783	409.855	381.860	602.959	337.959
75	137.961	170.463	821.301	1950.657	718.440	627.561	630.742	650.414	936.994	579.047
80	84.675	82.978	306.994	333.505	159.647	142.786	343.950	615.154	569.874	566.640
85	24.178	25.079	61.028	37.486	34.570	34.411	99.521	198.989	192.786	174.123
90	0.742	0.742	1.220	1.220	1.272	4.560	4.189	3.553	2.863	2.863
95	0.583	0.583	0.689	0.636	1.220	5.673	2.863	1.325	1.113	1.432
100	0.689	0.636	0.636	0.742	1.432	7.582	4.082	1.537	1.008	1.485
105	0.689	0.689	0.742	0.954	1.909	9.385	5.461	2.174	1.379	2.174
110	0.796	0.848	0.848	1.060	2.015	9.385	6.257	3.022	1.909	2.916
115	0.901	0.901	0.901	1.060	1.962	9.120	6.734	4.136	2.863	4.136
120	1.220	1.113	1.220	1.485	2.810	7.900	6.150	4.666	3.605	4.560
125	1.591	1.325	1.220	1.591	2.598	6.150	5.409	4.931	4.348	4.825
130	3.234	1.856	1.591	2.386	4.719	4.506	4.613	5.037	7.051	5.196
135	3.605	2.280	2.068	2.916	5.302	4.294	4.719	5.938	8.960	6.098
140	3.712	2.969	2.969	3.765	5.567	5.621	6.257	7.635	9.915	7.688
145	4.136	4.082	4.136	5.302	6.627	7.582	8.324	9.703	11.135	9.703
150	5.409	5.885	6.203	7.211	8.483	9.650	10.657	12.301	12.990	12.513
155	7.105	8.006	8.483	9.332	10.445	11.930	13.149	14.740	14.899	15.058
160	9.544	10.233	11.188	11.400	12.301	14.051	15.641	16.013	16.490	16.702
165	11.188	11.452	11.983	12.248	12.990	15.429	16.437	16.172	16.490	16.649
170	12.937	12.990	12.990	13.256	13.945	15.005	14.846	14.634	14.793	14.952
175	13.415	13.468	13.415	13.468	13.997	15.005	14.793	14.687	14.687	14.369
180	14.419	14.419	14.419	14.419	14.419	14.419	14.419	14.419	14.419	14.419

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	3563.256	3563.256	3563.256	3563.256	3563.256	3563.256	3563.256
5	3339.817	3442.679	3598.561	3612.877	3749.143	3846.702	3834.507
10	3024.340	3293.688	3584.246	3691.879	3889.119	4046.592	4062.499
15	2636.754	3112.356	3536.527	3763.458	4006.297	4189.220	4202.475
20	2257.121	2865.276	3475.021	3785.197	4079.996	4280.947	4307.988
25	1914.602	2592.746	3347.240	3787.848	4087.949	4364.190	4562.490
30	1586.930	2320.746	3238.017	3778.304	4073.103	4993.024	5709.343
35	1265.621	2052.458	3154.772	3765.579	4070.982	5867.877	6344.009
40	988.054	1899.227	3257.104	3818.600	4462.810	6077.312	6032.243
45	770.295	1831.889	3384.355	3962.819	5950.060	5739.565	5407.122
50	598.187	1791.593	3621.361	4136.199	7088.960	5090.583	4233.758
55	506.513	1804.318	4797.906	4710.950	6017.397	3765.579	2397.627
60	451.530	2420.426	6649.942	6535.946	4199.824	1556.178	677.613

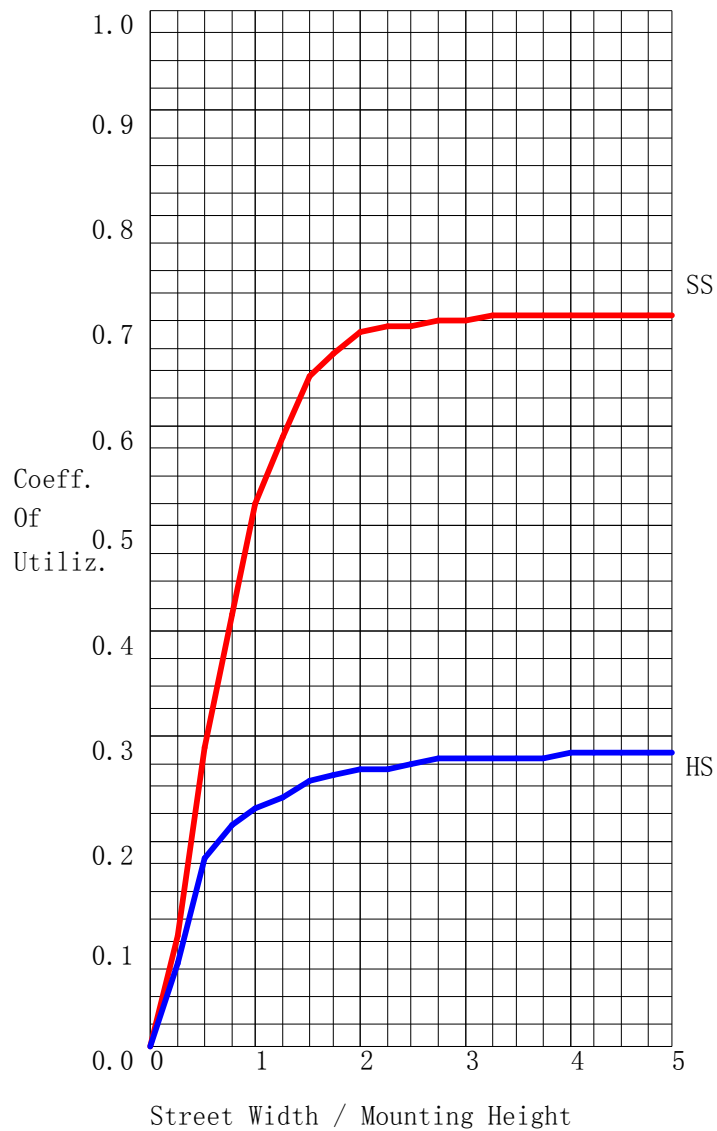
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CANDELA TABULATION - (Cont.)

65	414.150	2838.765	8203.466	8696.038	3109.174	582.175	446.440
70	572.048	1845.675	2894.968	7925.107	1398.174	371.680	275.181
75	576.979	347.184	475.761	856.296	747.602	163.783	137.961
80	246.974	92.841	120.677	277.302	279.953	78.418	84.675
85	64.952	25.026	26.669	20.838	36.002	22.799	24.178
90	2.916	4.878	3.553	0.954	1.008	0.796	0.742
95	3.341	6.999	5.621	0.742	0.583	0.636	0.583
100	4.454	8.855	7.847	0.848	0.636	0.689	0.689
105	5.938	10.180	9.650	0.954	0.636	0.742	0.689
110	6.627	9.968	9.756	1.008	0.796	0.796	0.796
115	6.839	9.544	9.385	0.954	0.848	0.901	0.901
120	6.627	8.431	8.059	1.537	1.060	1.167	1.220
125	5.991	6.627	6.415	1.485	1.167	1.432	1.591
130	4.878	4.878	5.355	2.068	1.432	1.909	3.234
135	4.931	4.506	4.825	2.757	1.962	2.280	3.605
140	6.469	5.991	5.833	3.605	2.704	2.810	3.712
145	8.802	8.112	7.370	4.878	3.765	3.870	4.136
150	11.400	10.392	9.279	6.627	5.514	5.514	5.409
155	13.892	12.725	11.718	8.483	7.794	7.370	7.105
160	16.384	14.793	13.997	10.499	10.339	9.650	9.544
165	16.754	16.013	15.588	11.771	11.877	11.347	11.188
170	15.058	15.482	15.801	13.149	12.831	12.778	12.937
175	14.475	14.899	15.801	13.785	13.415	13.308	13.415
180	14.419	14.419	14.419	14.419	14.419	14.419	14.419

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COEFFICIENTS OF UTILIZATION

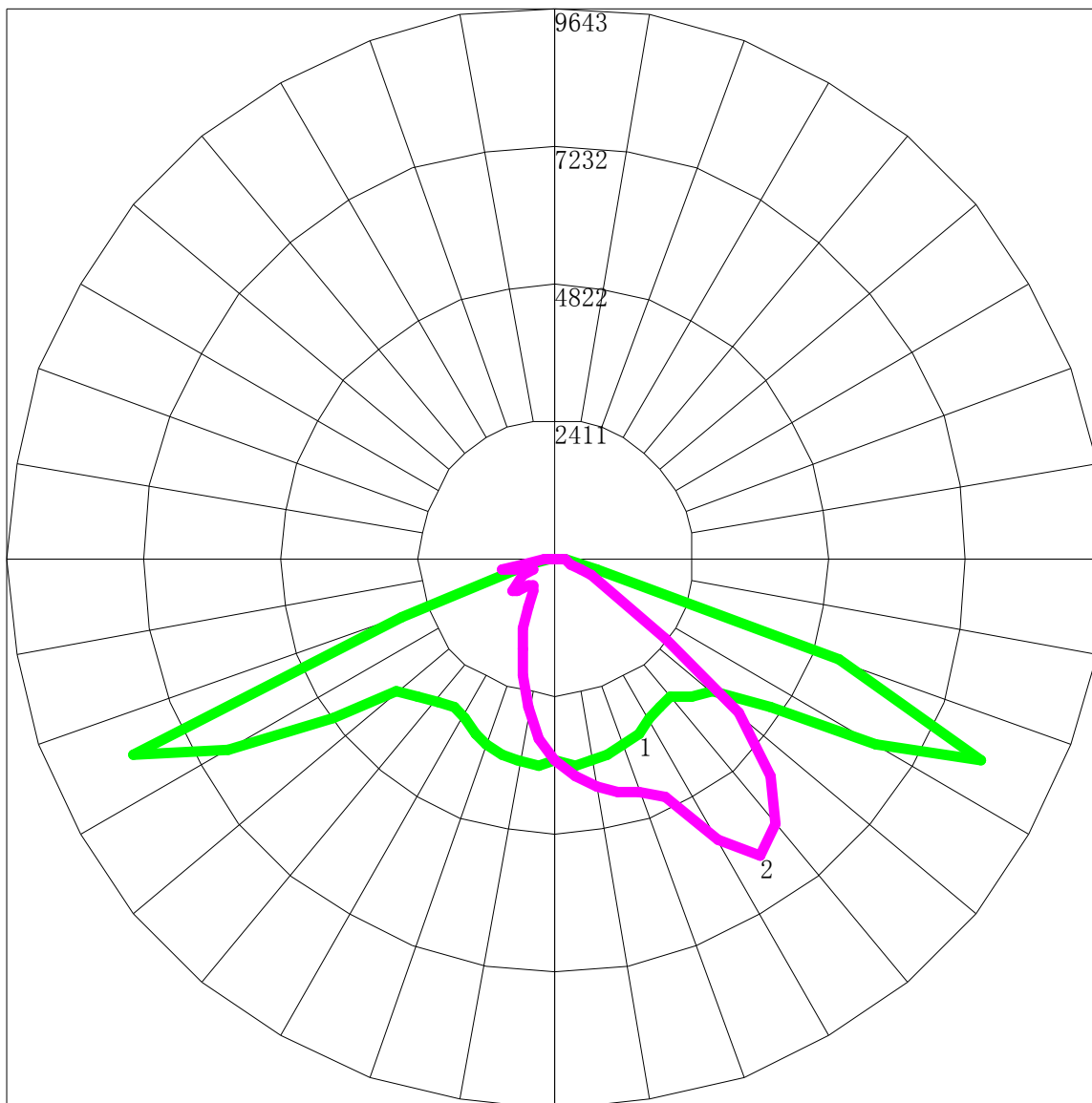


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	9744.4	70.7
Downward House Side	4001.2	29.0
Downward Total	13745.6	99.8
Upward Street Side	9.9	0.1
Upward House Side	21.1	0.2
Upward Total	31.0	0.2
Total Flux	13776.6	100.0

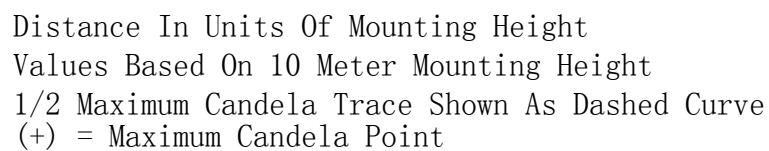
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POLAR GRAPH



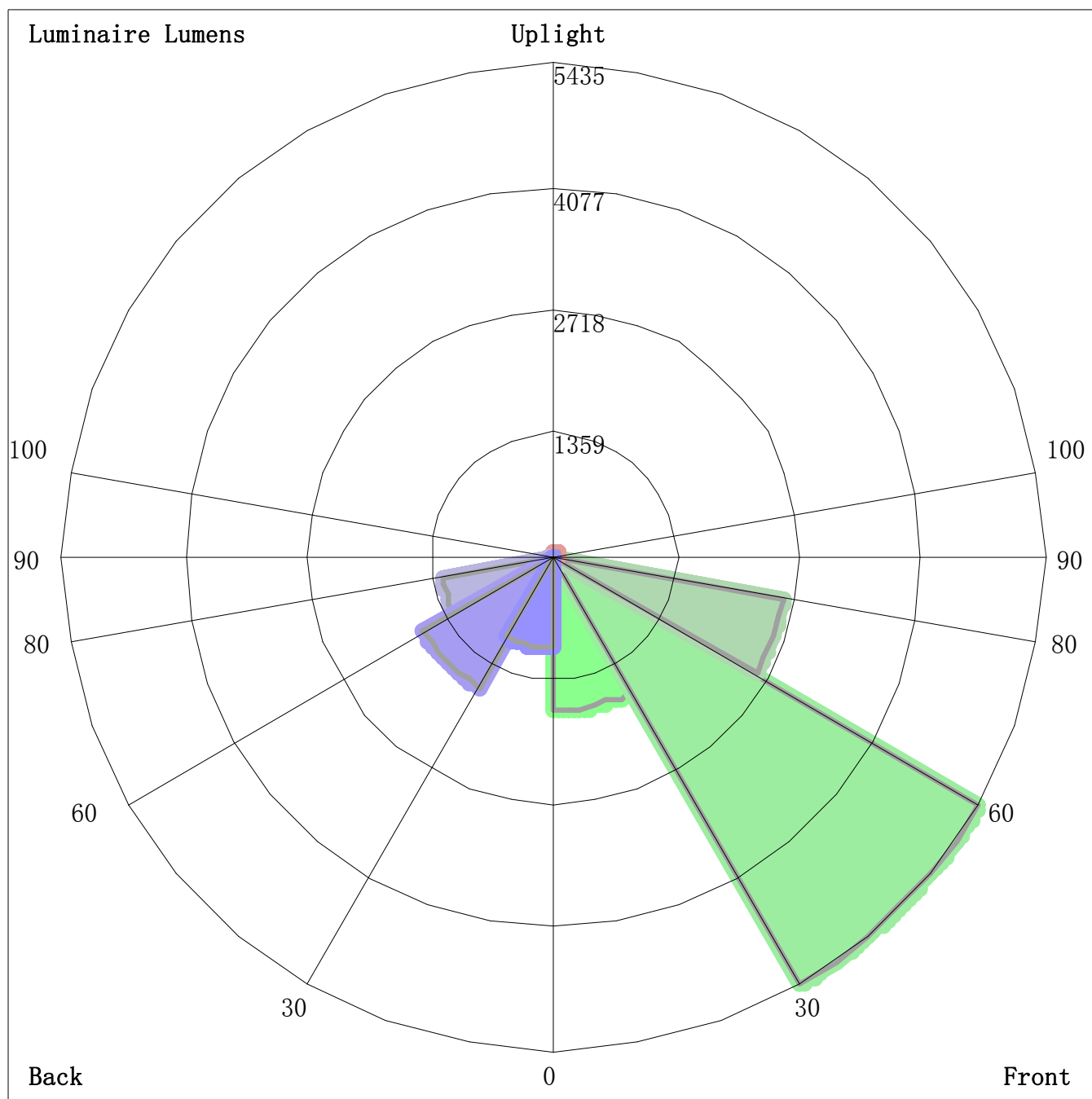
Maximum Candela = 9643.003 Located At Horizontal Angle = 67.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Vertical Plane Through Horizontal Angles (0 - 180)

ISOLUX LINES OF HORIZONTAL ILLUMINANCE



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LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:

Front: Low=1706.7, Medium=5435.4, High=2566.4, Very High=35.9

Back: Low=1012.3, Medium=1654.3, High= 1260.0, Very High=74.6

Uplight: Low=2.5, High=28.4

BUG Rating : B3-U2-G3