

IES ROAD REPORT
PHOTOMETRIC FILENAME : FL13-150W-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] FL13-150W-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	17350
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	157.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10744.33
Maximum Candela Angle	67.5H 70V
Maximum Candela (<90 Degrees Vertical)	10744.33
Maximum Candela Angle (<90 Degrees Vertical)	67.5H 70V
Maximum Candela At 90 Degrees Vertical	7.371 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	831.954 (4.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2148.3	N.A.	12.4
FM - Front-Medium (30-60)	6424.2	N.A.	37.0
FH - Front-High (60-80)	3588.7	N.A.	20.7
FVH - Front-Very High (80-90)	71.4	N.A.	0.4
BL - Back-Low (0-30)	1320.0	N.A.	7.6
BM - Back-Medium (30-60)	2037.2	N.A.	11.7
BH - Back-High (60-80)	1608.1	N.A.	9.3
BVH - Back-Very High (80-90)	111.4	N.A.	0.6
UL - Uplight-Low (90-100)	3.7	N.A.	0.0
UH - Uplight-High (100-180)	36.4	N.A.	0.2
Total	17349.4	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	4561.617	4561.617	4561.617	4561.617	4561.617	4561.617	4561.617	4561.617	4561.617	4561.617
5	4887.074	4884.442	4844.292	4711.995	4641.569	4351.307	4217.693	4126.863	4084.080	4168.329
10	5151.668	5141.137	5039.774	4839.685	4633.012	4131.470	3801.716	3557.527	3469.329	3618.081
15	5338.594	5328.063	5188.526	4904.845	4581.015	3913.608	3316.628	2980.951	2860.501	3011.886
20	5518.939	5509.724	5283.305	4924.591	4461.224	3604.917	2924.346	2464.270	2344.479	2526.798
25	5723.636	5630.831	5339.911	4912.085	4307.865	3249.494	2468.877	2013.409	1844.253	2041.053
30	6191.611	5834.212	5349.783	4839.026	4106.459	2896.702	2070.014	1605.329	1555.307	1646.138
35	7193.378	6583.892	5305.026	4746.221	3930.063	2576.821	1698.135	1309.868	1141.963	1312.632
40	7404.000	7094.649	5248.422	4729.767	3882.673	2297.090	1417.087	912.978	884.610	890.336
45	6839.271	7059.766	5487.345	4811.383	4023.527	2147.022	1045.274	782.985	800.361	751.326
50	5852.642	6541.110	6724.746	5043.724	4175.569	2037.762	796.609	854.530	1093.257	758.040
55	4572.459	5726.269	7723.223	5268.167	4569.168	1942.324	686.494	1163.025	1447.364	1048.236
60	1943.641	4074.866	7041.995	6340.361	6342.337	2015.383	617.581	1121.098	1142.620	976.822
65	615.409	1437.491	5349.125	8533.456	8233.980	2764.406	552.750	668.788	692.615	628.836
70	431.774	599.613	4016.944	10744.330	8413.008	2886.829	500.949	531.884	847.619	468.172
75	199.959	344.234	1391.417	5701.257	1617.177	1125.969	682.544	908.568	1284.461	754.551
80	121.370	130.914	516.681	831.954	340.285	316.327	588.292	826.952	748.561	761.331
85	36.069	39.557	91.817	91.686	55.551	58.514	198.906	252.483	227.339	212.004
90	1.053	1.119	2.370	3.027	2.041	6.845	5.594	4.541	3.949	4.673
95	0.724	0.724	0.922	0.790	1.448	8.622	5.134	2.107	1.448	2.238
100	0.790	0.790	0.790	0.922	1.711	10.400	6.582	2.699	1.645	2.764
105	0.856	0.922	0.856	1.119	2.041	11.585	8.425	3.949	2.436	4.081
110	0.988	1.119	1.053	1.185	2.304	11.057	8.359	5.068	3.423	5.134
115	1.119	1.185	1.251	1.251	2.370	10.794	8.425	6.450	4.673	6.319
120	1.448	1.448	1.514	1.843	3.356	8.952	7.371	6.450	5.594	6.319
125	2.238	1.843	1.645	1.974	3.027	6.845	6.516	6.582	6.319	6.714
130	4.344	2.501	2.107	2.896	5.792	5.331	5.660	6.779	10.992	6.845
135	5.068	3.291	2.764	3.752	6.385	5.397	5.989	7.701	13.033	7.570
140	5.003	4.081	3.752	5.003	7.042	7.305	7.898	9.938	13.361	9.675
145	5.463	5.463	5.594	6.845	8.556	9.675	10.663	12.505	14.085	12.308
150	7.042	7.635	8.096	9.412	10.992	12.637	13.624	15.600	16.192	15.600
155	8.952	10.137	10.926	11.913	13.164	15.270	16.652	18.298	18.430	18.824
160	12.111	13.033	14.217	14.546	15.797	18.167	20.075	20.535	20.404	20.667
165	15.731	16.520	17.113	16.982	17.771	20.470	21.457	20.667	20.997	21.326
170	17.179	17.179	17.639	17.771	18.561	19.943	20.141	19.812	19.680	19.680
175	17.771	18.100	18.167	18.100	18.561	19.416	19.350	19.087	18.758	18.167
180	18.616	18.616	18.616	18.616	18.616	18.616	18.616	18.616	18.616	18.616

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	4561.617	4561.617	4561.617	4561.617	4561.617	4561.617	4561.617
5	4299.967	4403.303	4621.823	4632.354	4756.752	4869.303	4887.074
10	3864.902	4209.137	4571.801	4708.704	4945.653	5108.226	5151.668
15	3402.852	3963.631	4524.411	4787.687	5093.747	5297.128	5338.594
20	2950.674	3657.572	4401.329	4785.054	5185.236	5437.980	5518.939
25	2537.988	3342.956	4266.400	4803.484	5226.701	5576.860	5723.636
30	2123.326	2981.609	4075.524	4743.588	5222.752	5730.876	6191.611
35	1737.627	2630.793	3915.583	4677.769	5177.995	6387.752	7193.378
40	1388.127	2378.705	3878.066	4663.947	5120.074	6886.661	7404.000
45	1081.146	2232.587	3924.140	4708.704	5299.761	6875.471	6839.271
50	824.320	2131.225	4023.527	4789.004	6500.302	6334.438	5852.642
55	678.135	2034.471	4380.925	4996.993	7505.361	5488.004	4572.459
60	600.666	2193.095	6059.972	6023.112	6591.134	3805.007	1943.641

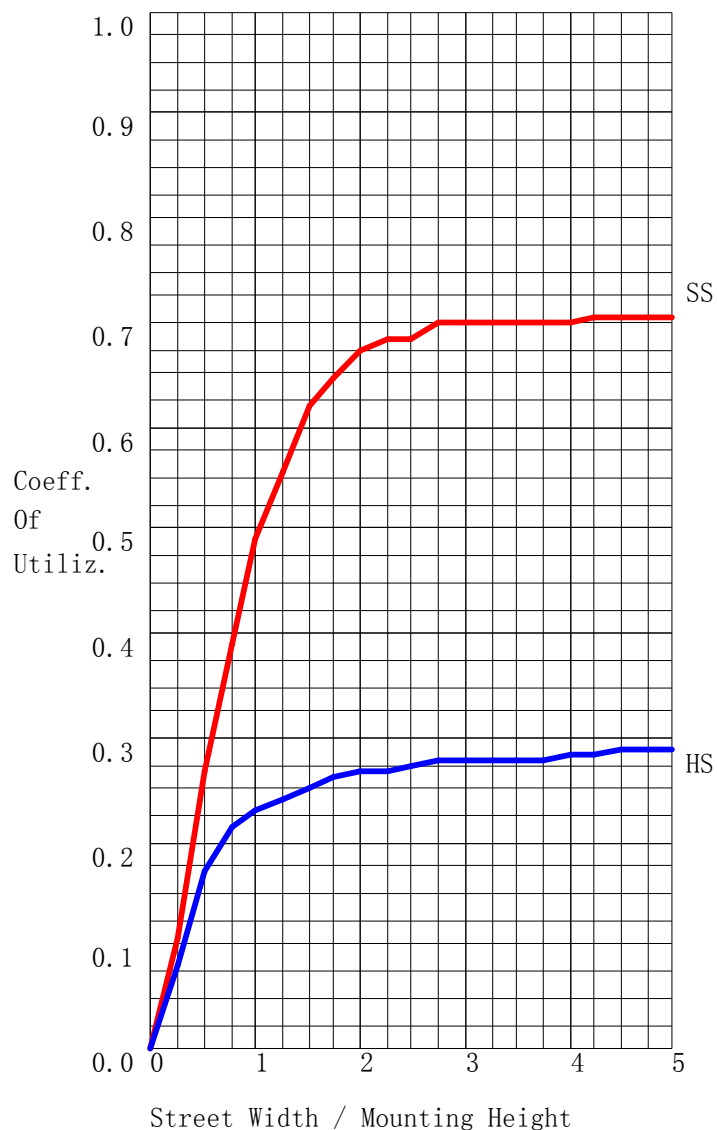
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CANDELA TABULATION - (Cont.)

65	532.806	2840.097	7973.995	8033.889	4852.848	1401.291	615.409
70	525.830	2817.719	7723.882	10013.730	3622.688	562.754	431.774
75	693.537	861.244	1266.888	4003.123	1234.109	342.259	199.959
80	377.934	221.482	327.977	620.017	467.975	126.965	121.370
85	109.721	46.929	66.610	66.938	86.091	41.992	36.069
90	5.529	7.371	5.792	2.633	2.041	1.316	1.053
95	5.792	9.807	7.570	0.922	0.790	0.790	0.724
100	7.108	11.386	9.807	1.053	0.856	0.922	0.790
105	8.688	12.242	11.453	1.185	0.658	0.922	0.856
110	8.886	11.782	11.123	1.119	0.988	1.119	0.988
115	8.952	11.123	10.597	1.251	0.988	1.251	1.119
120	8.161	9.412	8.886	1.843	1.316	1.448	1.448
125	7.108	7.305	7.108	1.777	1.448	1.777	2.238
130	5.792	5.529	6.122	2.501	1.908	2.501	4.344
135	5.858	5.331	5.068	3.027	2.567	3.225	5.068
140	7.964	7.240	6.779	4.278	3.489	3.949	5.003
145	10.729	10.004	9.149	5.923	5.068	5.266	5.463
150	13.822	12.967	11.716	8.227	7.305	7.174	7.042
155	17.245	16.126	14.678	10.794	10.004	9.675	8.952
160	20.404	18.890	17.705	13.296	13.361	12.440	12.111
165	22.181	20.931	20.141	15.863	16.060	15.534	15.731
170	19.878	20.075	20.272	17.311	17.179	16.982	17.179
175	18.430	18.890	19.812	18.430	17.968	17.771	17.771
180	18.616	18.616	18.616	18.616	18.616	18.616	18.616

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COEFFICIENTS OF UTILIZATION

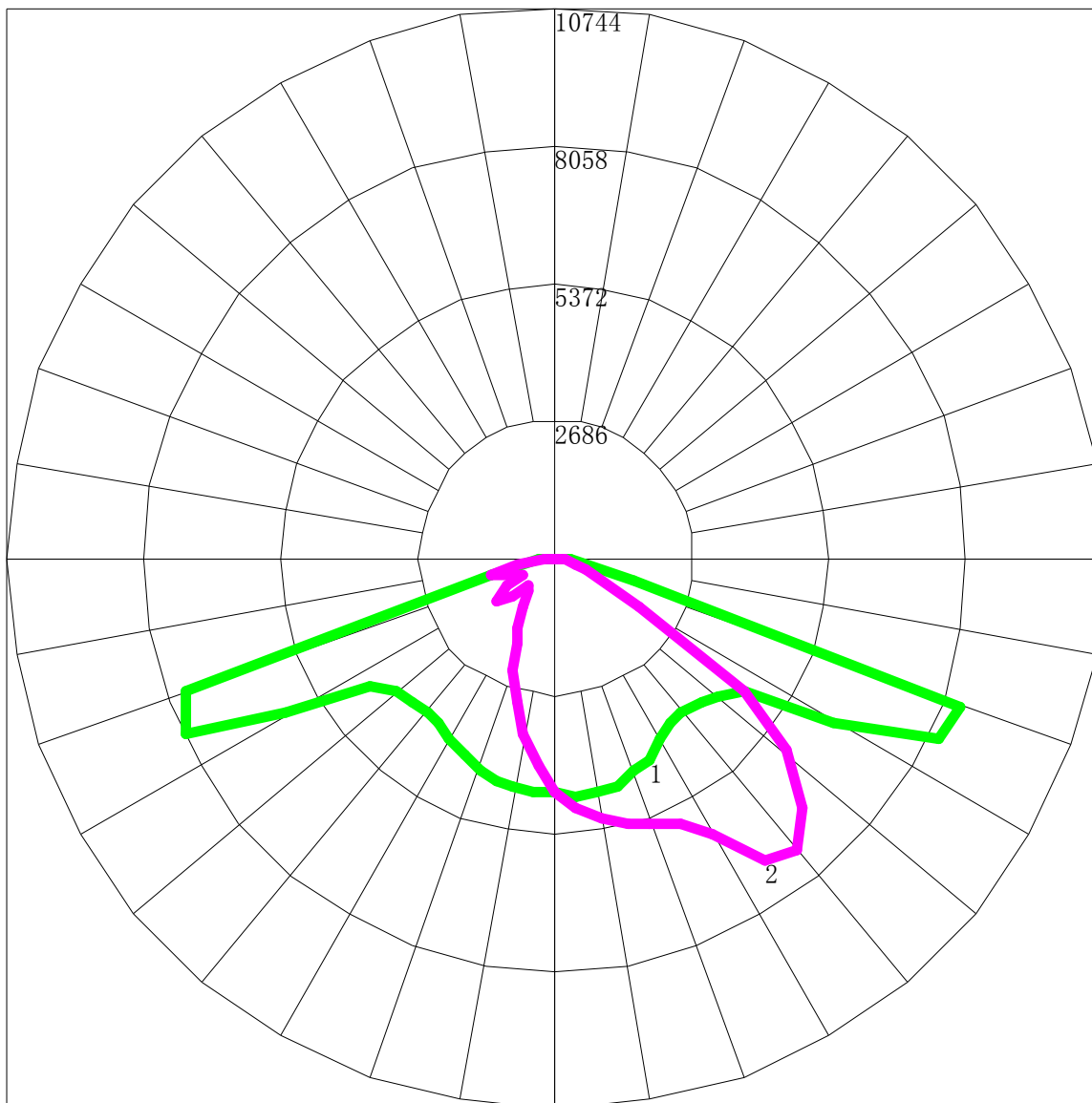


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	12232.6	70.5
Downward House Side	5076.7	29.3
Downward Total	17309.3	99.8
Upward Street Side	12.7	0.1
Upward House Side	27.5	0.2
Upward Total	40.2	0.2
Total Flux	17349.5	100.0

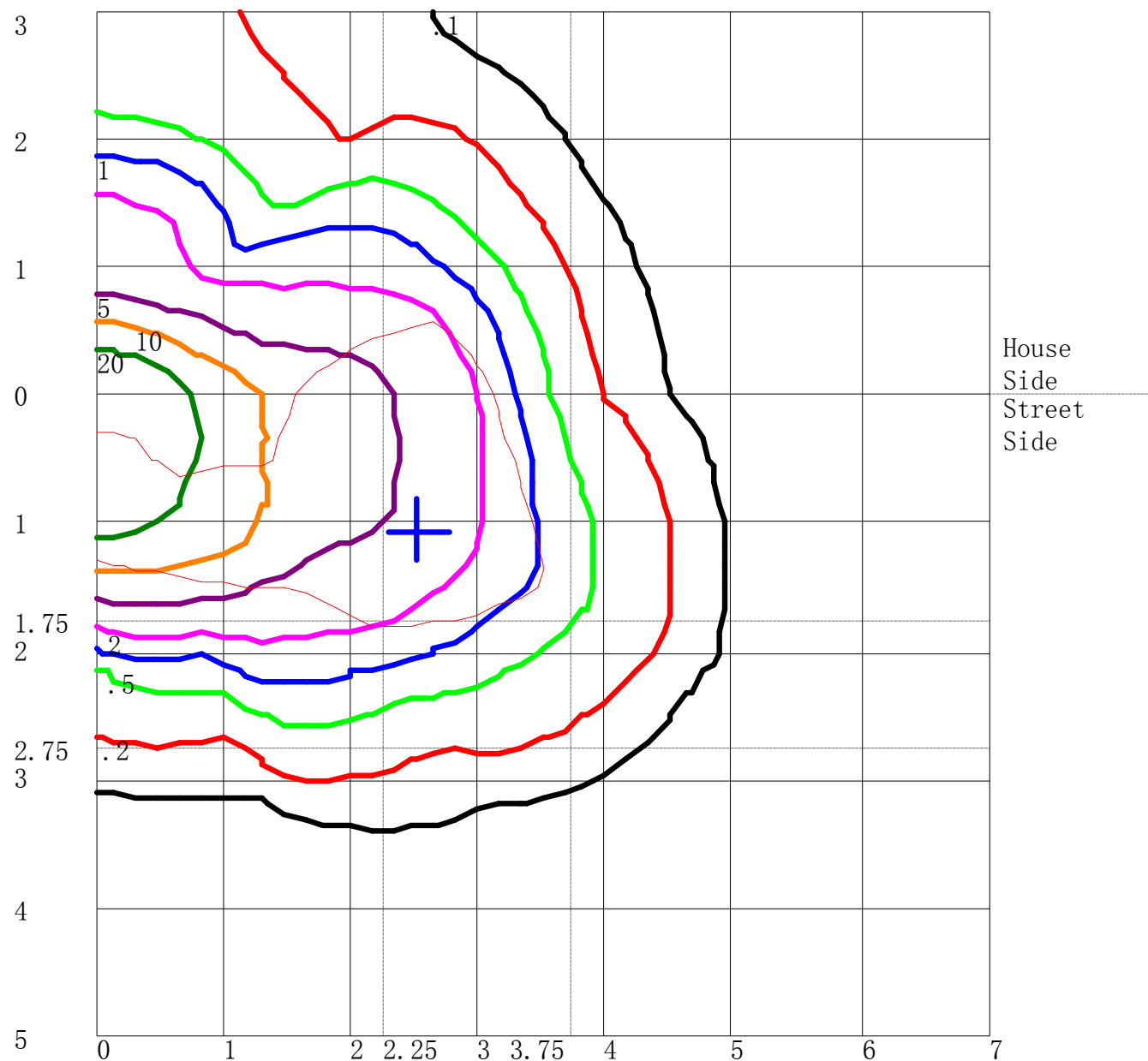
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POLAR GRAPH



Maximum Candela = 10744.33 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)

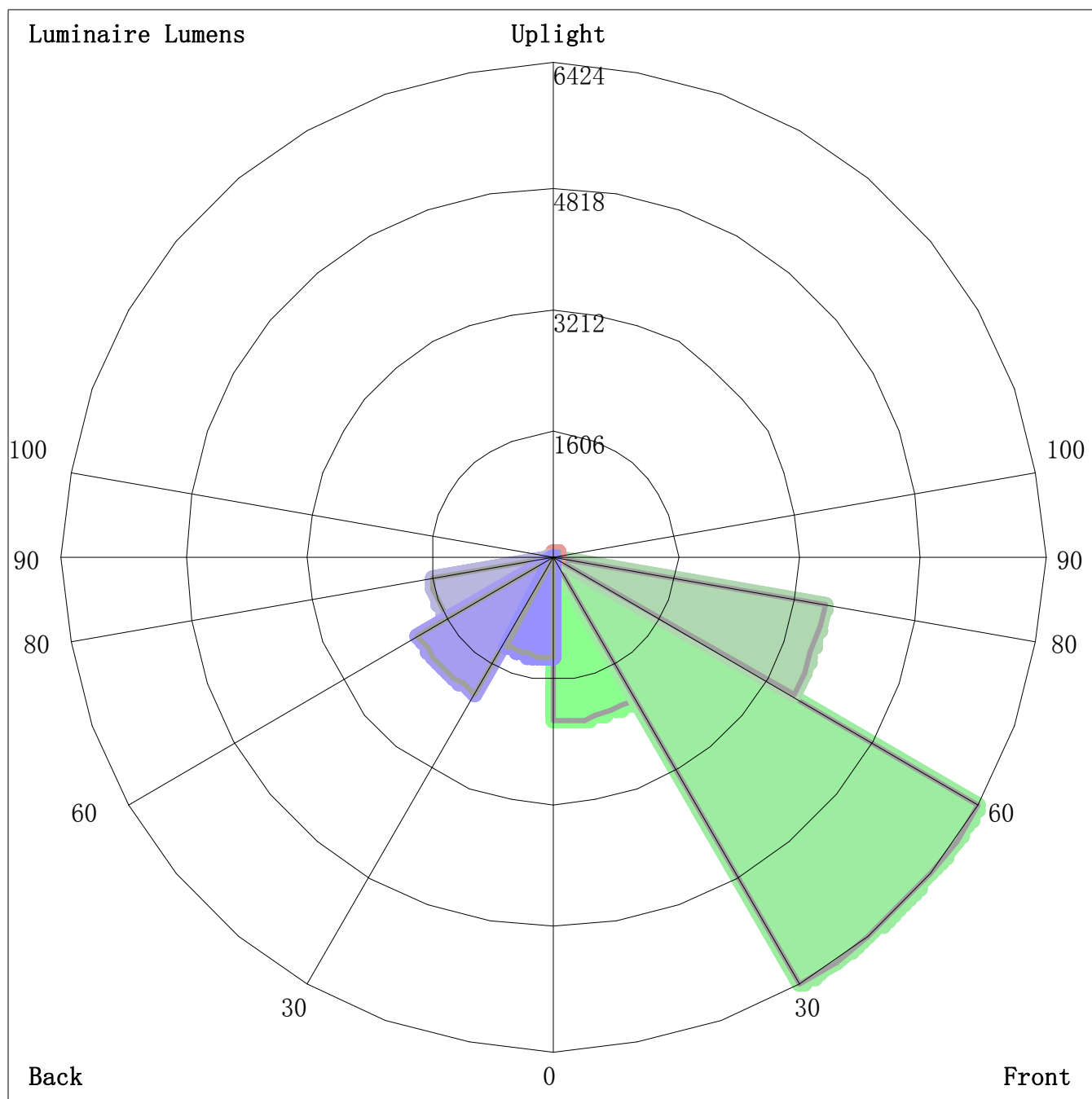
ISOLUX LINES OF HORIZONTAL ILLUMINANCE



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

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LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:

Front: Low=2148.3, Medium=6424.2, High=3588.7, Very High=71.4
Back: Low= 1320.0, Medium=2037.2, High=1608.1, Very High=111.4
Uplight: Low=3.7, High=36.4

BUG Rating : B3-U2-G3