

IES ROAD REPORT
PHOTOMETRIC FILENAME : FL23-300W-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] FL23-300W-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	34809
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	316
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	21556.869
Maximum Candela Angle	67.5H 70V
Maximum Candela (<90 Degrees Vertical)	21556.869
Maximum Candela Angle (<90 Degrees Vertical)	67.5H 70V
Maximum Candela At 90 Degrees Vertical	14.79 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1669.191 (4.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	4310.2	N.A.	12.4
FM - Front-Medium (30-60)	12889.2	N.A.	37.0
FH - Front-High (60-80)	7200.2	N.A.	20.7
FVH - Front-Very High (80-90)	143.2	N.A.	0.4
BL - Back-Low (0-30)	2648.4	N.A.	7.6
BM - Back-Medium (30-60)	4087.4	N.A.	11.7
BH - Back-High (60-80)	3226.4	N.A.	9.3
BVH - Back-Very High (80-90)	223.5	N.A.	0.6
UL - Uplight-Low (90-100)	7.5	N.A.	0.0
UH - Uplight-High (100-180)	73.1	N.A.	0.2
Total	34809.1	N.A.	100.0
BUG Rating	B4-U3-G4		

IES ROAD REPORT
PHOTOMETRIC FILENAME : FL23-300W-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	9152.197	9152.197	9152.197	9152.197	9152.197	9152.197	9152.197	9152.197	9152.197	9152.197
5	9805.177	9799.896	9719.342	9453.907	9312.609	8730.241	8462.166	8279.928	8194.091	8363.123
10	10336.040	10314.920	10111.550	9710.098	9295.440	8289.172	7627.570	7137.641	6960.685	7259.133
15	10711.080	10689.950	10410.000	9840.832	9191.117	7852.065	6654.315	5980.829	5739.165	6042.895
20	11072.920	11054.430	10600.160	9880.449	8950.774	7232.722	5867.259	4944.186	4703.843	5069.640
25	11483.610	11297.410	10713.720	9855.359	8643.082	6519.619	4953.430	4039.601	3700.215	4095.066
30	12422.530	11705.470	10733.530	9708.776	8238.990	5811.796	4153.171	3220.851	3120.489	3302.727
35	14432.430	13209.590	10643.730	9522.577	7885.080	5170.002	3407.053	2628.052	2291.176	2633.598
40	14855.010	14234.340	10530.170	9489.564	7789.998	4608.764	2843.172	1831.752	1774.836	1786.325
45	13721.970	14164.360	11009.530	9653.314	8072.600	4307.676	2097.185	1570.941	1605.804	1507.421
50	11742.440	13123.750	13492.190	10119.470	8377.650	4088.462	1598.276	1714.486	2193.455	1520.892
55	9173.950	11488.890	15495.480	10569.780	9167.346	3896.980	1377.347	2333.433	2903.917	2103.128
60	3899.622	8175.604	14128.700	12720.980	12724.940	4043.562	1239.083	2249.315	2292.495	1959.846
65	1234.726	2884.108	10732.210	17121.090	16520.240	5546.364	1109.009	1341.823	1389.627	1261.666
70	866.289	1203.033	8059.393	21556.869	16879.430	5791.987	1005.079	1067.146	1700.620	939.317
75	401.187	690.653	2791.669	11438.710	3244.622	2259.087	1369.422	1822.906	2577.077	1513.893
80	243.511	262.660	1036.643	1669.191	682.730	634.663	1180.320	1659.154	1501.876	1527.496
85	72.367	79.366	184.217	183.954	111.455	117.399	399.075	506.568	456.121	425.353
90	2.112	2.245	4.755	6.074	4.094	13.734	11.224	9.112	7.923	9.377
95	1.452	1.452	1.849	1.584	2.905	17.300	10.300	4.227	2.905	4.490
100	1.584	1.584	1.584	1.849	3.433	20.866	13.206	5.415	3.301	5.546
105	1.717	1.849	1.717	2.245	4.094	23.243	16.904	7.923	4.887	8.188
110	1.982	2.245	2.112	2.377	4.622	22.185	16.772	10.168	6.867	10.300
115	2.245	2.377	2.510	2.510	4.755	21.657	16.904	12.941	9.377	12.678
120	2.905	2.905	3.038	3.698	6.734	17.960	14.790	12.941	11.224	12.678
125	4.490	3.698	3.301	3.961	6.074	13.734	13.073	13.206	12.678	13.471
130	8.716	5.018	4.227	5.811	11.621	10.696	11.356	13.601	22.054	13.734
135	10.168	6.604	5.546	7.527	12.810	10.828	12.017	15.450	26.148	15.187
140	10.037	8.188	7.527	10.037	14.129	14.657	15.846	19.940	26.807	19.412
145	10.961	10.961	11.224	13.734	17.167	19.412	21.394	25.090	28.260	24.694
150	14.129	15.318	16.243	18.884	22.054	25.355	27.335	31.298	32.487	31.298
155	17.960	20.337	21.922	23.901	26.411	30.638	33.410	36.711	36.976	37.767
160	24.299	26.148	28.523	29.184	31.694	36.448	40.277	41.201	40.938	41.466
165	31.561	33.145	34.334	34.071	35.655	41.070	43.050	41.466	42.127	42.787
170	34.467	34.467	35.390	35.655	37.239	40.012	40.410	39.749	39.484	39.484
175	35.655	36.316	36.448	36.316	37.239	38.956	38.824	38.296	37.635	36.448
180	37.350	37.350	37.350	37.350	37.350	37.350	37.350	37.350	37.350	37.350

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	9152.197	9152.197	9152.197	9152.197	9152.197	9152.197	9152.197
5	8627.236	8834.564	9272.990	9294.119	9543.706	9769.522	9805.177
10	7754.343	8444.999	9172.628	9447.305	9922.708	10248.890	10336.040
15	6827.309	7952.429	9077.549	9605.772	10219.830	10627.890	10711.080
20	5920.083	7338.367	8830.603	9600.489	10403.390	10910.490	11072.920
25	5092.090	6707.137	8559.887	9637.466	10486.590	11189.130	11483.610
30	4260.134	5982.150	8176.924	9517.294	10478.670	11498.140	12422.530
35	3486.286	5278.289	7856.026	9385.239	10388.870	12816.060	14432.430
40	2785.067	4772.513	7780.754	9357.506	10272.660	13817.050	14855.010
45	2169.156	4479.348	7873.195	9447.305	10633.170	13794.600	13721.970
50	1653.873	4275.982	8072.600	9608.414	13041.880	12709.090	11742.440
55	1360.576	4081.860	8789.665	10025.710	15058.380	11010.850	9173.950
60	1205.145	4400.115	12158.420	12084.470	13224.120	7634.172	3899.622

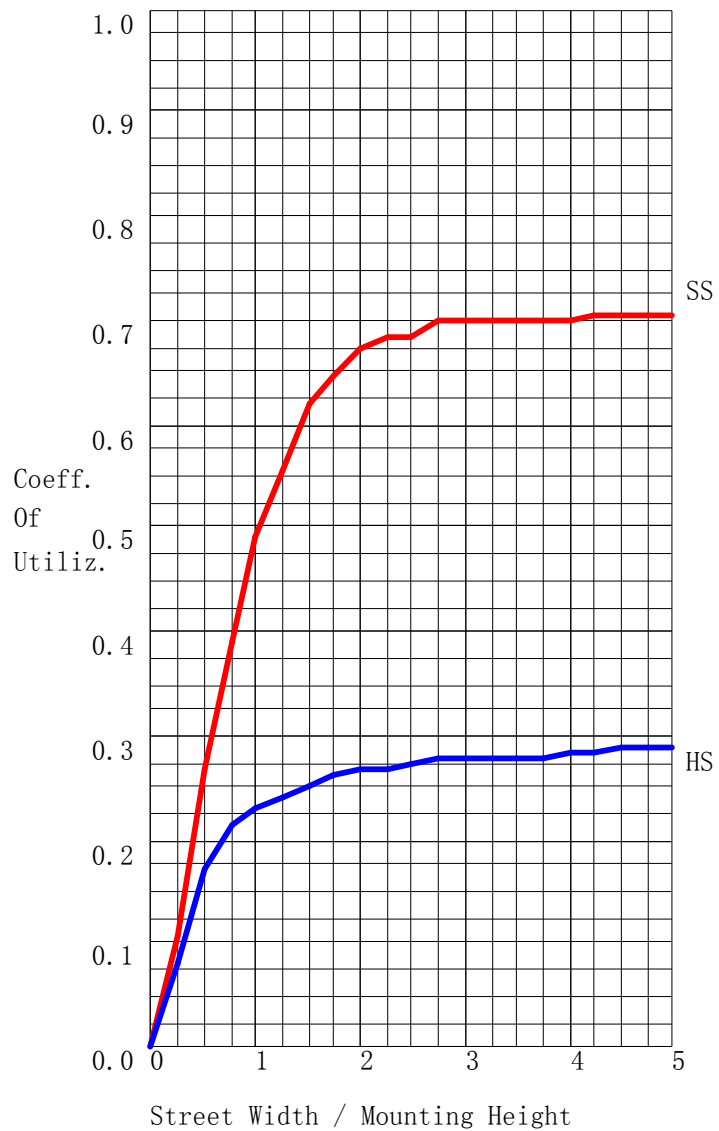
IES ROAD REPORT
PHOTOMETRIC FILENAME : FL23-300W-C340-PCC.IES

CANDELA TABULATION - (Cont.)

65	1068.995	5698.227	15998.620	16118.790	9736.509	2811.478	1234.726
70	1054.998	5653.327	15496.800	20091.039	7268.377	1129.082	866.289
75	1391.477	1727.957	2541.819	8031.662	2476.054	686.692	401.187
80	758.267	444.370	658.036	1243.970	938.921	254.737	243.511
85	220.138	94.156	133.642	134.301	172.729	84.251	72.367
90	11.093	14.790	11.621	5.283	4.094	2.640	2.112
95	11.621	19.677	15.187	1.849	1.584	1.584	1.452
100	14.262	22.845	19.677	2.112	1.717	1.849	1.584
105	17.432	24.562	22.978	2.377	1.321	1.849	1.717
110	17.828	23.638	22.317	2.245	1.982	2.245	1.982
115	17.960	22.317	21.261	2.510	1.982	2.510	2.245
120	16.374	18.884	17.828	3.698	2.640	2.905	2.905
125	14.262	14.657	14.262	3.566	2.905	3.566	4.490
130	11.621	11.093	12.282	5.018	3.829	5.018	8.716
135	11.754	10.696	10.168	6.074	5.150	6.471	10.168
140	15.978	14.527	13.601	8.584	6.999	7.923	10.037
145	21.526	20.072	18.356	11.884	10.168	10.565	10.961
150	27.732	26.016	23.506	16.506	14.657	14.394	14.129
155	34.599	32.354	29.449	21.657	20.072	19.412	17.960
160	40.938	37.900	35.523	26.676	26.807	24.959	24.299
165	44.504	41.994	40.410	31.826	32.222	31.166	31.561
170	39.882	40.277	40.673	34.732	34.467	34.071	34.467
175	36.976	37.900	39.749	36.976	36.051	35.655	35.655
180	37.350	37.350	37.350	37.350	37.350	37.350	37.350

IES ROAD REPORT
PHOTOMETRIC FILENAME : FL23-300W-C340-PCC.IES

COEFFICIENTS OF UTILIZATION

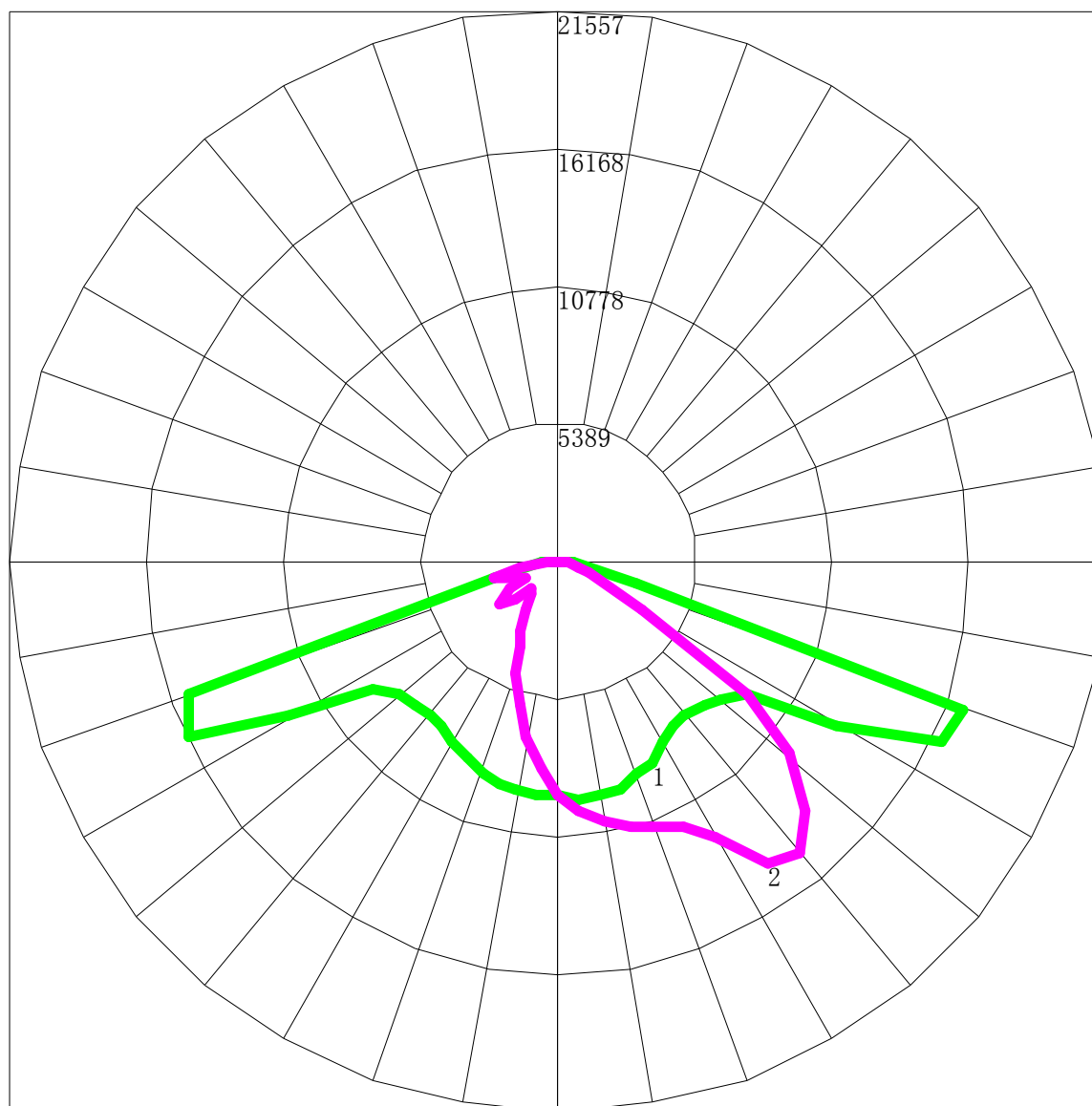


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	24542.8	70.5
Downward House Side	10185.7	29.3
Downward Total	34728.5	99.8
Upward Street Side	25.6	0.1
Upward House Side	55.1	0.2
Upward Total	80.7	0.2
Total Flux	34809.2	100.0

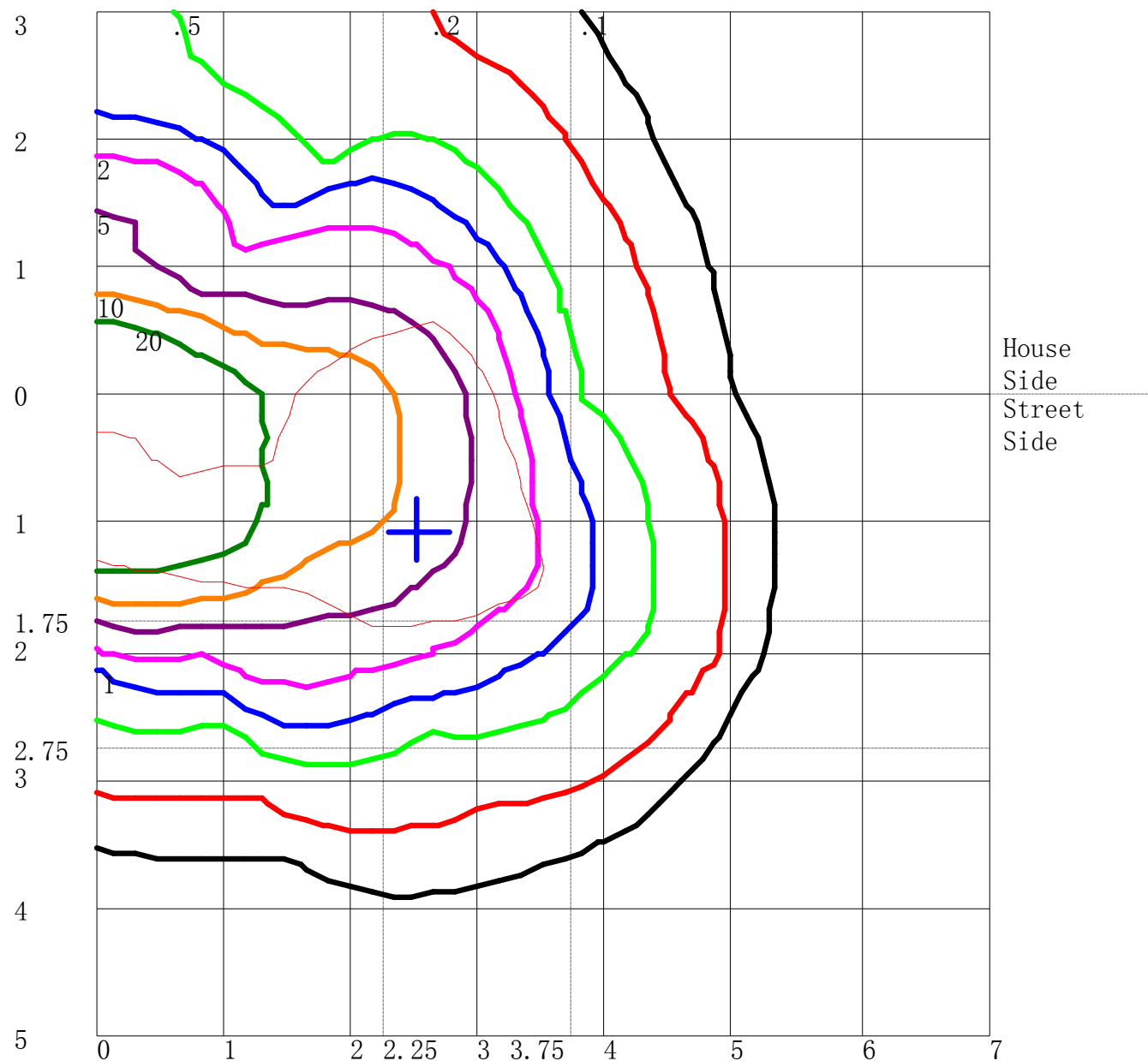
IES ROAD REPORT
PHOTOMETRIC FILENAME : FL23-300W-C340-PCC.IES

POLAR GRAPH



Maximum Candela = 21556.869 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

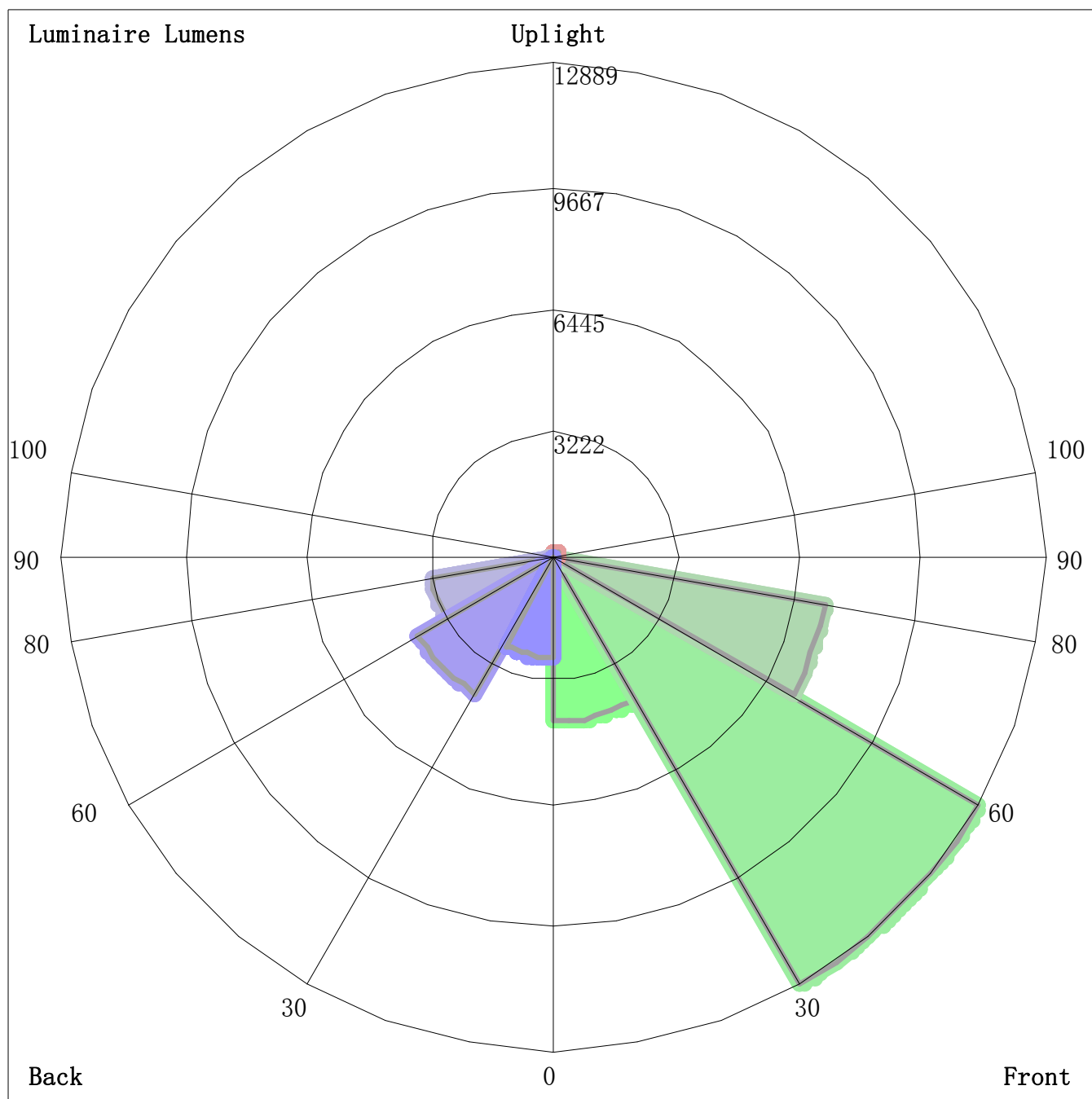
Values Based On 10 Meter Mounting Height

1/2 Maximum Candela Trace Shown As Dashed Curve

(+) = Maximum Candela Point

IES ROAD REPORT
PHOTOMETRIC FILENAME : FL23-300W-C340-PCC.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:

Front: Low=4310.2, Medium=12889.2, High=7200.2, Very High=143.2

Back: Low=2648.4, Medium=4087.4, High=3226.4, Very High=223.5

Uplight: Low=7.5, High=73.1

BUG Rating : B4-U3-G4