



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P23-FLSH-LED35-HO-MWG-D1G.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P23-FLSH-LED35-HO-MWG-D1G

[TESTLAB] Intertek Lake Forest

[ISSUE DATE]

[MANUFAC] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3617
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	0.70
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.23 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7659	8191	31188
55	6929	6760	23494
65	5793	5778	15749
75	4359	4665	9603
85	2957	2791	4562

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CANDELA TABULATION

	<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>
0.0	3323.086	3323.086	3323.086	3323.086	3323.086	3323.086	3323.086	3323.086	3323.086	3323.086
2.5	3179.293	3190.811	3228.719	3298.152	3314.740	3298.152	3228.719	3190.811	3179.293	3206.892
5.0	2797.275	2846.519	2991.417	3211.754	3306.537	3211.754	2991.417	2846.519	2797.275	2869.334
7.5	2377.089	2449.317	2688.153	3077.022	3292.952	3077.022	2688.153	2449.317	2377.089	2473.796
10.0	2016.794	2093.546	2378.948	2907.125	3273.907	2907.125	2378.948	2093.546	2016.794	2114.229
12.5	1731.067	1806.272	2100.358	2710.357	3248.505	2710.357	2100.358	1806.272	1731.067	1826.136
15.0	1499.368	1572.285	1854.190	2505.932	3214.783	2505.932	1854.190	1572.285	1499.368	1591.837
17.5	1305.616	1376.050	1648.517	2307.942	3175.068	2307.942	1648.517	1376.050	1305.616	1392.365
20.0	1141.660	1213.121	1469.741	2112.331	3123.614	2112.331	1469.741	1213.121	1141.660	1221.935
22.5	1003.704	1069.965	1311.245	1932.489	3061.812	1932.489	1311.245	1069.965	1003.704	1077.518
25.0	885.378	941.850	1169.194	1768.832	2996.123	1768.832	1169.194	941.850	885.378	949.598
27.5	789.815	835.653	1044.264	1617.681	2906.579	1617.681	1044.264	835.653	789.815	842.647
30.0	711.633	748.982	931.476	1477.164	2808.429	1477.164	931.476	748.982	711.633	753.740
32.5	649.831	677.378	832.338	1347.112	2694.770	1347.112	832.338	677.378	649.831	682.240
35.0	598.962	617.474	743.717	1221.519	2554.734	1221.519	743.717	617.474	598.962	622.804
37.5	558.077	567.905	667.498	1106.742	2407.496	1106.742	667.498	567.905	558.077	571.636
40.0	522.041	528.112	601.822	998.335	2238.301	998.335	601.822	528.112	522.041	529.737
42.5	490.165	490.906	544.024	893.191	2068.040	893.191	544.024	490.906	490.165	493.259
45.0	461.669	458.484	493.714	799.799	1879.852	799.799	493.714	458.484	461.669	460.577
47.5	431.106	426.049	445.419	711.295	1693.419	711.295	445.419	426.049	431.106	430.937
50.0	400.868	395.642	402.818	631.020	1502.436	631.020	402.818	395.642	400.868	399.451
52.5	368.511	364.754	364.845	555.672	1320.943	555.672	364.845	364.754	368.511	369.590
55.0	338.793	336.050	330.525	487.760	1148.680	487.760	330.525	336.050	338.793	338.338
57.5	305.344	304.694	297.934	425.854	984.425	425.854	297.934	304.694	305.344	308.867
60.0	272.246	275.353	265.863	368.199	831.896	368.199	265.863	275.353	272.246	278.499
62.5	240.513	246.337	236.639	317.252	693.368	317.252	236.639	246.337	240.513	249.418
65.0	208.702	216.840	208.156	269.022	567.346	269.022	208.156	216.840	208.702	219.024
67.5	176.462	189.254	179.504	225.979	456.989	225.979	179.504	189.254	176.462	192.374
70.0	146.484	160.056	153.231	187.421	360.373	187.421	153.231	160.056	146.484	161.889
72.5	121.225	133.289	127.218	152.360	280.488	152.360	127.218	133.289	121.225	134.472
75.0	96.174	105.326	102.921	119.132	211.861	119.132	102.921	105.326	96.174	109.148
77.5	73.892	82.277	80.678	89.505	153.153	89.505	80.678	82.277	73.892	84.968
80.0	53.924	60.502	57.668	63.128	102.271	63.128	57.668	60.502	53.924	62.790
82.5	36.244	40.456	38.051	39.858	64.623	39.858	38.051	40.456	36.244	41.873
85.0	21.970	22.269	20.735	21.060	33.891	21.060	20.735	22.269	21.970	25.649
87.5	9.906	10.621	8.710	7.228	11.375	7.228	8.710	10.621	9.906	12.259
90.0	4.121	2.808	1.937	1.768	1.612	1.768	1.937	2.808	4.121	4.498
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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>
0.0	3323.086	3323.086	3323.086	3323.086	3323.086	3323.086	3323.086
2.5	3251.482	3313.557	3312.114	3313.557	3251.482	3206.892	3179.293
5.0	3040.388	3249.025	3302.156	3249.025	3040.388	2869.334	2797.275
7.5	2745.275	3130.751	3285.997	3130.751	2745.275	2473.796	2377.089
10.0	2431.494	2973.126	3264.300	2973.126	2431.494	2114.229	2016.794
12.5	2142.829	2787.070	3233.490	2787.070	2142.829	1826.136	1731.067
15.0	1894.191	2586.779	3197.831	2586.779	1894.191	1591.837	1499.368
17.5	1684.696	2381.392	3151.278	2381.392	1684.696	1392.365	1305.616
20.0	1501.331	2183.610	3096.951	2183.610	1501.331	1221.935	1141.660
22.5	1338.155	1998.438	3034.980	1998.438	1338.155	1077.518	1003.704
25.0	1194.271	1830.127	2959.242	1830.127	1194.271	949.598	885.378
27.5	1065.740	1675.791	2871.180	1675.791	1065.740	842.647	789.815
30.0	950.235	1531.634	2768.558	1531.634	950.235	753.740	711.633
32.5	847.574	1395.875	2646.878	1395.875	847.574	682.240	649.831
35.0	757.848	1267.240	2509.390	1267.240	757.848	622.804	598.962
37.5	680.199	1145.963	2359.188	1145.963	680.199	571.636	558.077
40.0	613.158	1034.956	2196.987	1034.956	613.158	529.737	522.041
42.5	554.047	930.527	2022.293	930.527	554.047	493.259	490.165
45.0	500.266	831.688	1840.072	831.688	500.266	460.577	461.669
47.5	453.531	740.961	1654.887	740.961	453.531	430.937	431.106
50.0	410.332	658.216	1468.883	658.216	410.332	399.451	400.868
52.5	373.087	580.216	1289.795	580.216	373.087	369.590	368.511
55.0	335.725	509.600	1116.817	509.600	335.725	338.338	338.793
57.5	303.043	443.495	954.759	443.495	303.043	308.867	305.344
60.0	271.271	385.918	803.972	385.918	271.271	278.499	272.246
62.5	241.917	332.111	666.055	332.111	241.917	249.418	240.513
65.0	213.512	282.945	544.999	282.945	213.512	219.024	208.702
67.5	185.952	237.471	438.113	237.471	185.952	192.374	176.462
70.0	158.353	199.459	343.694	199.459	158.353	161.889	146.484
72.5	133.510	162.864	265.915	162.864	133.510	134.472	121.225
75.0	107.991	128.479	201.838	128.479	107.991	109.148	96.174
77.5	83.551	98.267	145.210	98.267	83.551	84.968	73.892
80.0	62.387	69.693	100.386	69.693	62.387	62.790	53.924

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CANDELA TABULATION - (Cont.)

82.5	41.041	47.515	59.293	47.515	41.041	41.873	36.244
85.0	24.531	25.376	31.018	25.376	24.531	25.649	21.970
87.5	9.152	10.647	9.321	10.647	9.152	12.259	9.906
90.0	2.405	2.314	0.832	2.314	2.405	4.498	4.121
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	859.08	N.A.	23.70
0-30	1534.67	N.A.	42.40
0-40	2190.23	N.A.	60.50
0-60	3184.1	N.A.	88.00
0-80	3586.48	N.A.	99.10
0-90	3616.95	N.A.	100.00
10-90	3343.59	N.A.	92.40
20-40	1331.15	N.A.	36.80
20-50	1897.77	N.A.	52.50
40-70	1265.1	N.A.	35.00
60-80	402.38	N.A.	11.10
70-80	131.15	N.A.	3.60
80-90	30.47	N.A.	0.80
90-110	0.36	N.A.	0.00
90-120	0.36	N.A.	0.00
90-130	0.36	N.A.	0.00
90-150	0.36	N.A.	0.00
90-180	0.36	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3617.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	273.37
10-20	585.72
20-30	675.59
30-40	655.56
40-50	566.61
50-60	427.26
60-70	271.23
70-80	131.15
80-90	30.47
90-100	0.36
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

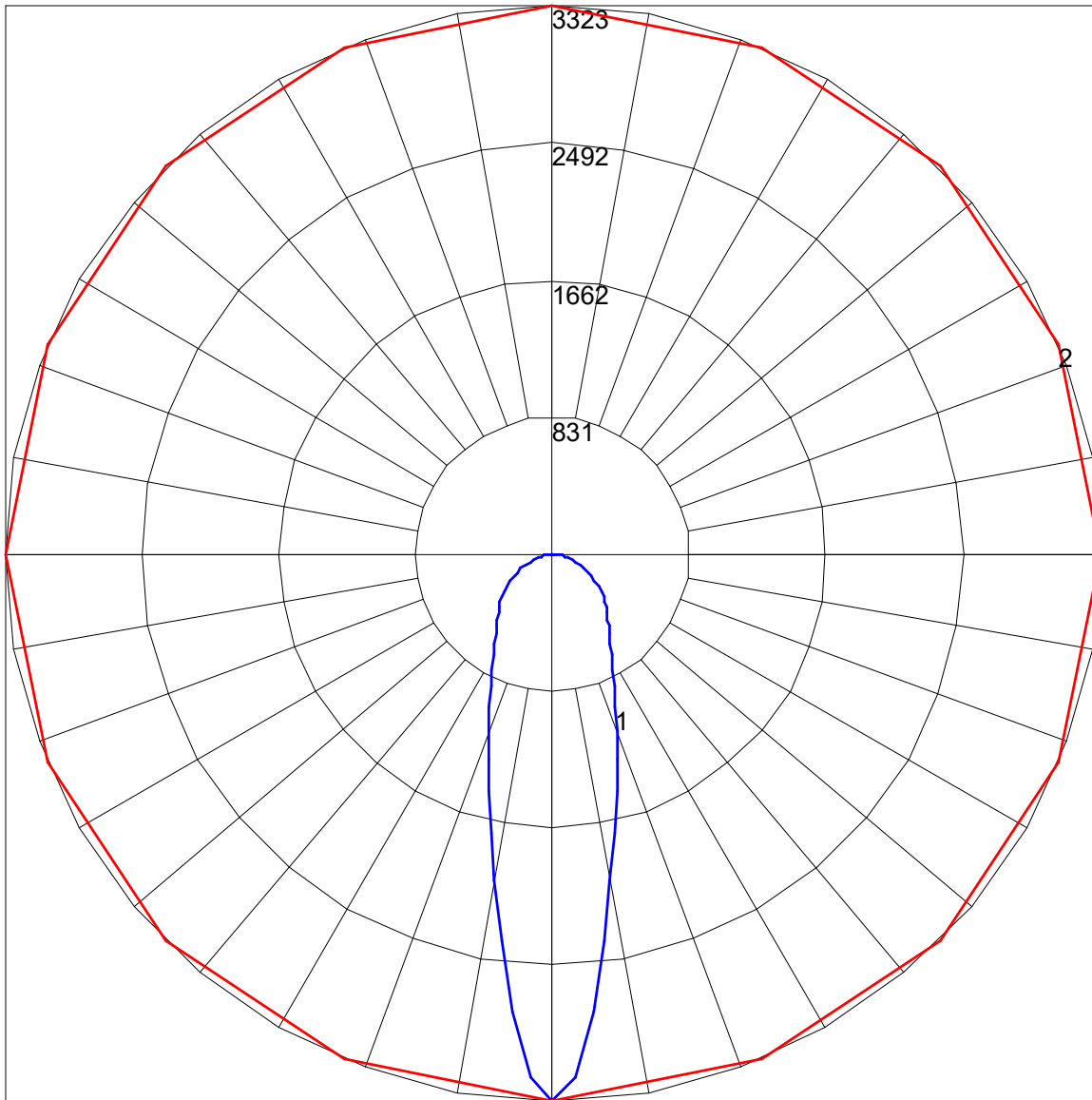
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	94	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	65	62	60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	51	46	42	40
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34

POLAR GRAPH



Maximum Candela = 3323.086 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)