



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P23-FLSH-LED35-MO-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	2365
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	24
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	5008	5356	20392
55	4531	4420	15362
65	3788	3778	10297
75	2850	3050	6279
85	1934	1825	2983

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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	2172.787	2172.787	2172.787	2172.787	2172.787	2172.787	2172.787	2172.787	2172.787	2172.787
2.5	2078.769	2086.300	2111.086	2156.484	2167.330	2156.484	2111.086	2086.300	2078.769	2096.814
5.0	1828.988	1861.186	1955.927	2099.993	2161.967	2099.993	1955.927	1861.186	1828.988	1876.103
7.5	1554.251	1601.477	1757.639	2011.899	2153.084	2011.899	1757.639	1601.477	1554.251	1617.482
10.0	1318.673	1368.857	1555.466	1900.813	2140.632	1900.813	1555.466	1368.857	1318.673	1382.381
12.5	1131.852	1181.024	1373.311	1772.157	2124.023	1772.157	1373.311	1181.024	1131.852	1194.012
15.0	980.356	1028.033	1212.355	1638.494	2101.974	1638.494	1212.355	1028.033	980.356	1040.817
17.5	853.672	899.725	1077.877	1509.039	2076.006	1509.039	1077.877	899.725	853.672	910.393
20.0	746.470	793.195	960.985	1381.140	2042.363	1381.140	960.985	793.195	746.470	798.958
22.5	656.268	699.593	857.353	1263.551	2001.954	1263.551	857.353	699.593	656.268	704.531
25.0	578.901	615.825	764.473	1156.544	1959.004	1156.544	764.473	615.825	578.901	620.891
27.5	516.418	546.389	682.788	1057.715	1900.456	1057.715	682.788	546.389	516.418	550.962
30.0	465.299	489.719	609.042	965.838	1836.281	965.838	609.042	489.719	465.299	492.830
32.5	424.890	442.901	544.221	880.804	1761.965	880.804	544.221	442.901	424.890	446.080
35.0	391.629	403.733	486.277	798.686	1670.403	798.686	486.277	403.733	391.629	407.218
37.5	364.897	371.323	436.441	723.639	1574.132	723.639	436.441	371.323	364.897	373.762
40.0	341.335	345.304	393.499	652.758	1463.505	652.758	393.499	345.304	341.335	346.367
42.5	320.493	320.977	355.708	584.010	1352.180	584.010	355.708	320.977	320.493	322.516
45.0	301.861	299.778	322.813	522.946	1229.134	522.946	322.813	299.778	301.861	301.147
47.5	281.877	278.571	291.236	465.078	1107.236	465.078	291.236	278.571	281.877	281.767
50.0	262.106	258.689	263.381	412.590	982.362	412.590	263.381	258.689	262.106	261.180
52.5	240.950	238.493	238.553	363.324	863.694	363.324	238.553	238.493	240.950	241.655
55.0	221.519	219.725	216.113	318.920	751.060	318.920	216.113	219.725	221.519	221.221
57.5	199.648	199.223	194.803	278.443	643.663	278.443	194.803	199.223	199.648	201.952
60.0	178.007	180.039	173.834	240.746	543.932	240.746	173.834	180.039	178.007	182.096
62.5	157.259	161.067	154.726	207.434	453.356	207.434	154.726	161.067	157.259	163.081
65.0	136.459	141.780	136.102	175.899	370.957	175.899	136.102	141.780	136.459	143.208
67.5	115.379	123.743	117.368	147.756	298.801	147.756	117.368	123.743	115.379	125.783
70.0	95.778	104.652	100.190	122.545	235.629	122.545	100.190	104.652	95.778	105.851
72.5	79.263	87.151	83.181	99.620	183.396	99.620	83.181	87.151	79.263	87.924
75.0	62.883	68.867	67.295	77.894	138.525	77.894	67.295	68.867	62.883	71.366
77.5	48.314	53.797	52.751	58.523	100.139	58.523	52.751	53.797	48.314	55.556
80.0	35.258	39.559	37.706	41.276	66.870	41.276	37.706	39.559	35.258	41.055
82.5	23.698	26.452	24.880	26.061	42.254	26.061	24.880	26.452	23.698	27.379
85.0	14.365	14.561	13.558	13.770	22.160	13.770	13.558	14.561	14.365	16.771
87.5	6.477	6.945	5.695	4.726	7.438	4.726	5.695	6.945	6.477	8.016
90.0	2.695	1.836	1.267	1.156	1.054	1.156	1.267	1.836	2.695	2.941
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	2172.787	2172.787	2172.787	2172.787	2172.787	2172.787	2172.787
2.5	2125.969	2166.557	2165.613	2166.557	2125.969	2096.814	2078.769
5.0	1987.946	2124.363	2159.102	2124.363	1987.946	1876.103	1828.988
7.5	1794.988	2047.030	2148.537	2047.030	1794.988	1617.482	1554.251
10.0	1589.823	1943.967	2134.350	1943.967	1589.823	1382.381	1318.673
12.5	1401.081	1822.315	2114.205	1822.315	1401.081	1194.012	1131.852
15.0	1238.510	1691.356	2090.890	1691.356	1238.510	1040.817	980.356
17.5	1101.532	1557.064	2060.451	1557.064	1101.532	910.393	853.672
20.0	981.640	1427.745	2024.930	1427.745	981.640	798.958	746.470
22.5	874.948	1306.671	1984.410	1306.671	874.948	704.531	656.268
25.0	780.870	1196.622	1934.889	1196.622	780.870	620.891	578.901
27.5	696.830	1095.710	1877.310	1095.710	696.830	550.962	516.418
30.0	621.308	1001.453	1810.211	1001.453	621.308	492.830	465.299
32.5	554.183	912.688	1730.651	912.688	554.183	446.080	424.890
35.0	495.516	828.580	1640.755	828.580	495.516	407.218	391.629
37.5	444.746	749.284	1542.546	749.284	444.746	373.762	364.897
40.0	400.911	676.702	1436.492	676.702	400.911	346.367	341.335
42.5	362.262	608.422	1322.269	608.422	362.262	322.516	320.493
45.0	327.097	543.796	1203.124	543.796	327.097	301.147	301.861
47.5	296.540	484.475	1082.042	484.475	296.540	281.767	281.877
50.0	268.294	430.372	960.424	430.372	268.294	261.180	262.106
52.5	243.942	379.372	843.328	379.372	243.942	241.655	240.950
55.0	219.513	333.200	730.227	333.200	219.513	221.221	221.519
57.5	198.144	289.978	624.266	289.978	198.144	201.952	199.648
60.0	177.370	252.331	525.674	252.331	177.370	182.096	178.007
62.5	158.177	217.150	435.498	217.150	158.177	163.081	157.259
65.0	139.604	185.003	356.346	185.003	139.604	143.208	136.459
67.5	121.584	155.270	286.459	155.270	121.584	125.783	115.379
70.0	103.539	130.416	224.723	130.416	103.539	105.851	95.778
72.5	87.295	106.488	173.868	106.488	87.295	87.924	79.263
75.0	70.610	84.006	131.971	84.006	70.610	71.366	62.883
77.5	54.630	64.252	94.945	64.252	54.630	55.556	48.314
80.0	40.792	45.569	65.637	45.569	40.792	41.055	35.258

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82.5	26.835	31.068	38.769	31.068	26.835	27.379	23.698
85.0	16.040	16.592	20.281	16.592	16.040	16.771	14.365
87.5	5.984	6.962	6.095	6.962	5.984	8.016	6.477
90.0	1.573	1.513	0.544	1.513	1.573	2.941	2.695
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	561.71	N.A.	23.70
0-30	1003.44	N.A.	42.40
0-40	1432.08	N.A.	60.50
0-60	2081.92	N.A.	88.00
0-80	2345.01	N.A.	99.10
0-90	2364.93	N.A.	100.00
10-90	2186.19	N.A.	92.40
20-40	870.37	N.A.	36.80
20-50	1240.85	N.A.	52.50
40-70	827.18	N.A.	35.00
60-80	263.09	N.A.	11.10
70-80	85.75	N.A.	3.60
80-90	19.92	N.A.	0.80
90-110	0.24	N.A.	0.00
90-120	0.24	N.A.	0.00
90-130	0.24	N.A.	0.00
90-150	0.24	N.A.	0.00
90-180	0.24	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2365.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.74
10-20	382.97
20-30	441.73
30-40	428.64
40-50	370.48
50-60	279.36
60-70	177.34
70-80	85.75
80-90	19.92
90-100	0.24
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

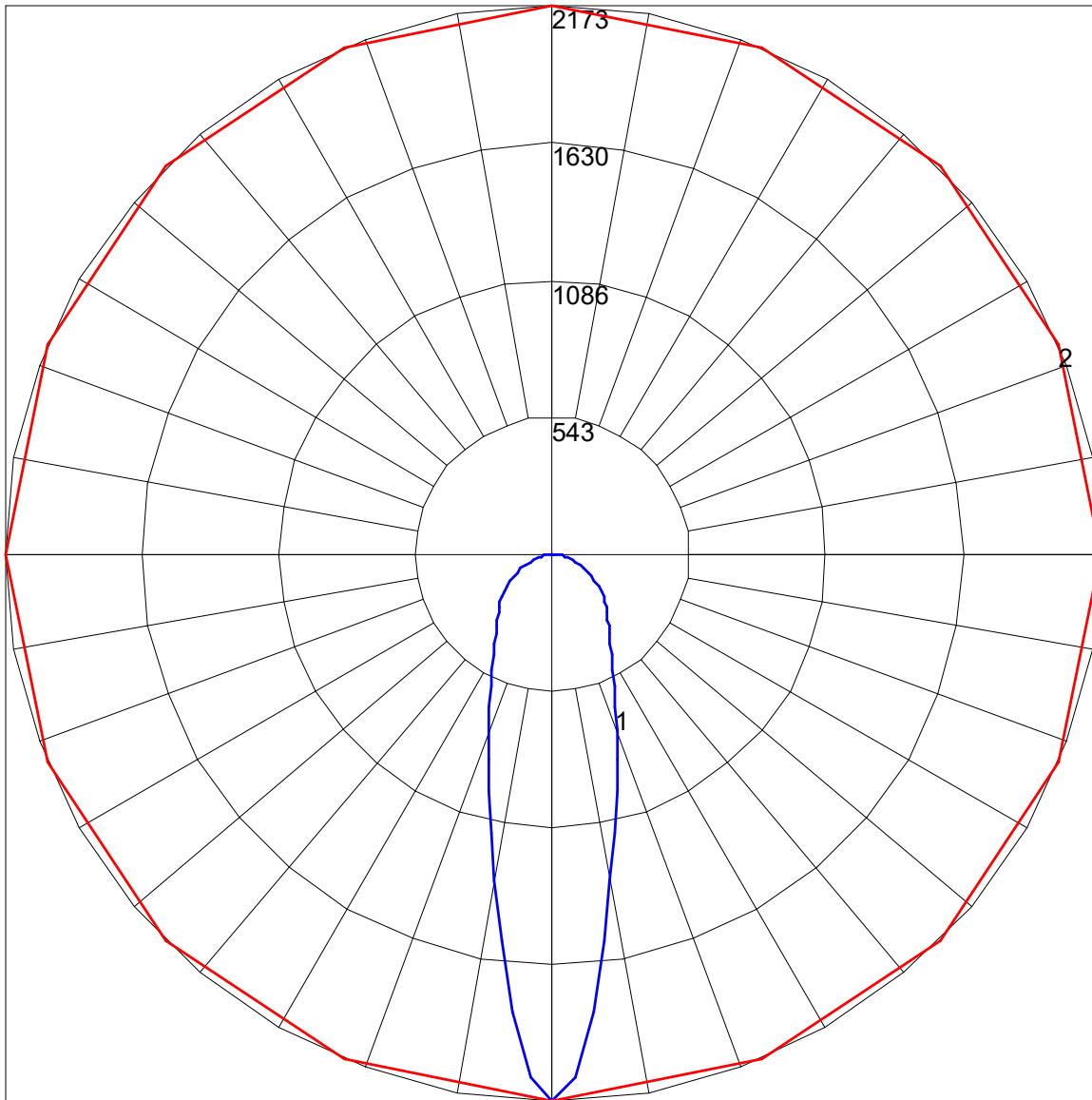
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2172.787 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.)