



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P23-FLSH-LED35-LO-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	1530
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	16
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	3241	3465	13195
55	2932	2860	9940
65	2451	2445	6663
75	1844	1974	4063
85	1251	1181	1930

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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>
<b>0.0</b>	1405.921	1405.921	1405.921	1405.921	1405.921	1405.921	1405.921	1405.921	1405.921	1405.921
<b>2.5</b>	1345.086	1349.959	1365.997	1395.372	1402.390	1395.372	1365.997	1349.959	1345.086	1356.762
<b>5.0</b>	1183.463	1204.297	1265.600	1358.819	1398.920	1358.819	1265.600	1204.297	1183.463	1213.949
<b>7.5</b>	1005.692	1036.250	1137.296	1301.817	1393.172	1301.817	1137.296	1036.250	1005.692	1046.606
<b>10.0</b>	853.259	885.731	1006.478	1229.938	1385.115	1229.938	1006.478	885.731	853.259	894.482
<b>12.5</b>	732.375	764.192	888.613	1146.690	1374.368	1146.690	888.613	764.192	732.375	772.596
<b>15.0</b>	634.348	665.198	784.465	1060.202	1360.101	1060.202	784.465	665.198	634.348	673.470
<b>17.5</b>	552.376	582.175	697.450	976.437	1343.298	976.437	697.450	582.175	552.376	589.078
<b>20.0</b>	483.010	513.244	621.814	893.679	1321.529	893.679	621.814	513.244	483.010	516.973
<b>22.5</b>	424.644	452.678	554.758	817.592	1295.382	817.592	554.758	452.678	424.644	455.873
<b>25.0</b>	374.583	398.475	494.659	748.352	1267.591	748.352	494.659	398.475	374.583	401.753
<b>27.5</b>	334.153	353.546	441.804	684.404	1229.707	684.404	441.804	353.546	334.153	356.505
<b>30.0</b>	301.076	316.877	394.086	624.954	1188.182	624.954	394.086	316.877	301.076	318.890
<b>32.5</b>	274.929	286.583	352.143	569.932	1140.095	569.932	352.143	286.583	274.929	288.640
<b>35.0</b>	253.407	261.239	314.650	516.797	1080.849	516.797	314.650	261.239	253.407	263.494
<b>37.5</b>	236.110	240.268	282.403	468.237	1018.556	468.237	282.403	240.268	236.110	241.846
<b>40.0</b>	220.864	223.432	254.617	422.373	946.974	422.373	254.617	223.432	220.864	224.120
<b>42.5</b>	207.378	207.691	230.164	377.889	874.940	377.889	230.164	207.691	207.378	208.687
<b>45.0</b>	195.322	193.974	208.879	338.377	795.322	338.377	208.879	193.974	195.322	194.860
<b>47.5</b>	182.391	180.252	188.447	300.933	716.447	300.933	188.447	180.252	182.391	182.320
<b>50.0</b>	169.598	167.387	170.423	266.970	635.646	266.970	170.423	167.387	169.598	168.999
<b>52.5</b>	155.909	154.319	154.358	235.092	558.861	235.092	154.358	154.319	155.909	156.365
<b>55.0</b>	143.336	142.175	139.838	206.360	485.980	206.360	139.838	142.175	143.336	143.143
<b>57.5</b>	129.184	128.909	126.049	180.169	416.488	180.169	126.049	128.909	129.184	130.675
<b>60.0</b>	115.181	116.496	112.481	155.777	351.956	155.777	112.481	116.496	115.181	117.827
<b>62.5</b>	101.756	104.220	100.117	134.222	293.348	134.222	100.117	104.220	101.756	105.523
<b>65.0</b>	88.297	91.740	88.066	113.817	240.031	113.817	88.066	91.740	88.297	92.664
<b>67.5</b>	74.657	80.069	75.944	95.607	193.342	95.607	75.944	80.069	74.657	81.389
<b>70.0</b>	61.974	67.716	64.829	79.294	152.466	79.294	64.829	67.716	61.974	68.492
<b>72.5</b>	51.288	56.392	53.823	64.460	118.668	64.460	53.823	56.392	51.288	56.892
<b>75.0</b>	40.689	44.561	43.544	50.402	89.634	50.402	43.544	44.561	40.689	46.178
<b>77.5</b>	31.262	34.810	34.133	37.868	64.796	37.868	34.133	34.810	31.262	35.948
<b>80.0</b>	22.814	25.597	24.398	26.708	43.269	26.708	24.398	25.597	22.814	26.565
<b>82.5</b>	15.334	17.116	16.099	16.863	27.341	16.863	16.099	17.116	15.334	17.716
<b>85.0</b>	9.295	9.422	8.773	8.910	14.339	8.910	8.773	9.422	9.295	10.852
<b>87.5</b>	4.191	4.494	3.685	3.058	4.813	3.058	3.685	4.494	4.191	5.187
<b>90.0</b>	1.744	1.188	0.820	0.748	0.682	0.748	0.820	1.188	1.744	1.903
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>127.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>132.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

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	1405.921	1405.921	1405.921	1405.921	1405.921	1405.921	1405.921
2.5	1375.627	1401.890	1401.279	1401.890	1375.627	1356.762	1345.086
5.0	1286.318	1374.588	1397.066	1374.588	1286.318	1213.949	1183.463
7.5	1161.463	1324.549	1390.230	1324.549	1161.463	1046.606	1005.692
10.0	1028.709	1257.861	1381.050	1257.861	1028.709	894.482	853.259
12.5	906.582	1179.145	1368.015	1179.145	906.582	772.596	732.375
15.0	801.389	1094.407	1352.929	1094.407	801.389	673.470	634.348
17.5	712.756	1007.512	1333.233	1007.512	712.756	589.078	552.376
20.0	635.179	923.835	1310.249	923.835	635.179	516.973	483.010
22.5	566.143	845.493	1284.030	845.493	566.143	455.873	424.644
25.0	505.269	774.285	1251.987	774.285	505.269	401.753	374.583
27.5	450.890	708.989	1214.730	708.989	450.890	356.505	334.153
30.0	402.023	647.999	1171.313	647.999	402.023	318.890	301.076
32.5	358.589	590.563	1119.833	590.563	358.589	288.640	274.929
35.0	320.628	536.140	1061.665	536.140	320.628	263.494	253.407
37.5	287.777	484.831	998.118	484.831	287.777	241.846	236.110
40.0	259.413	437.866	929.495	437.866	259.413	224.120	220.864
42.5	234.405	393.685	855.586	393.685	234.405	208.687	207.378
45.0	211.651	351.868	778.492	351.868	211.651	194.860	195.322
47.5	191.879	313.484	700.145	313.484	191.879	182.320	182.391
50.0	173.602	278.476	621.451	278.476	173.602	168.999	169.598
52.5	157.845	245.476	545.683	245.476	157.845	156.365	155.909
55.0	142.038	215.600	472.500	215.600	142.038	143.143	143.336
57.5	128.211	187.633	403.937	187.633	128.211	130.675	129.184
60.0	114.769	163.273	340.142	163.273	114.769	117.827	115.181
62.5	102.350	140.509	281.793	140.509	102.350	105.523	101.756
65.0	90.332	119.708	230.577	119.708	90.332	92.664	88.297
67.5	78.672	100.469	185.356	100.469	78.672	81.389	74.657
70.0	66.996	84.387	145.409	84.387	66.996	68.492	61.974
72.5	56.485	68.904	112.503	68.904	56.485	56.892	51.288
75.0	45.689	54.357	85.393	54.357	45.689	46.178	40.689
77.5	35.349	41.575	61.435	41.575	35.349	35.948	31.262
80.0	26.395	29.486	42.471	29.486	26.395	26.565	22.814

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**CANDELA TABULATION - (Cont.)**

82.5	17.364	20.103	25.086	20.103	17.364	17.716	15.334
85.0	10.379	10.736	13.123	10.736	10.379	10.852	9.295
87.5	3.872	4.505	3.944	4.505	3.872	5.187	4.191
90.0	1.018	0.979	0.352	0.979	1.018	1.903	1.744
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	363.46	N.A.	23.70
0-30	649.28	N.A.	42.40
0-40	926.64	N.A.	60.50
0-60	1347.12	N.A.	88.00
0-80	1517.36	N.A.	99.10
0-90	1530.25	N.A.	100.00
10-90	1414.6	N.A.	92.40
20-40	563.18	N.A.	36.80
20-50	802.90	N.A.	52.50
40-70	535.23	N.A.	35.00
60-80	170.24	N.A.	11.10
70-80	55.49	N.A.	3.60
80-90	12.89	N.A.	0.80
90-110	0.15	N.A.	0.00
90-120	0.15	N.A.	0.00
90-130	0.15	N.A.	0.00
90-150	0.15	N.A.	0.00
90-180	0.15	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1530.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	115.65
10-20	247.80
20-30	285.83
30-40	277.35
40-50	239.72
50-60	180.76
60-70	114.75
70-80	55.49
80-90	12.89
90-100	0.15
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

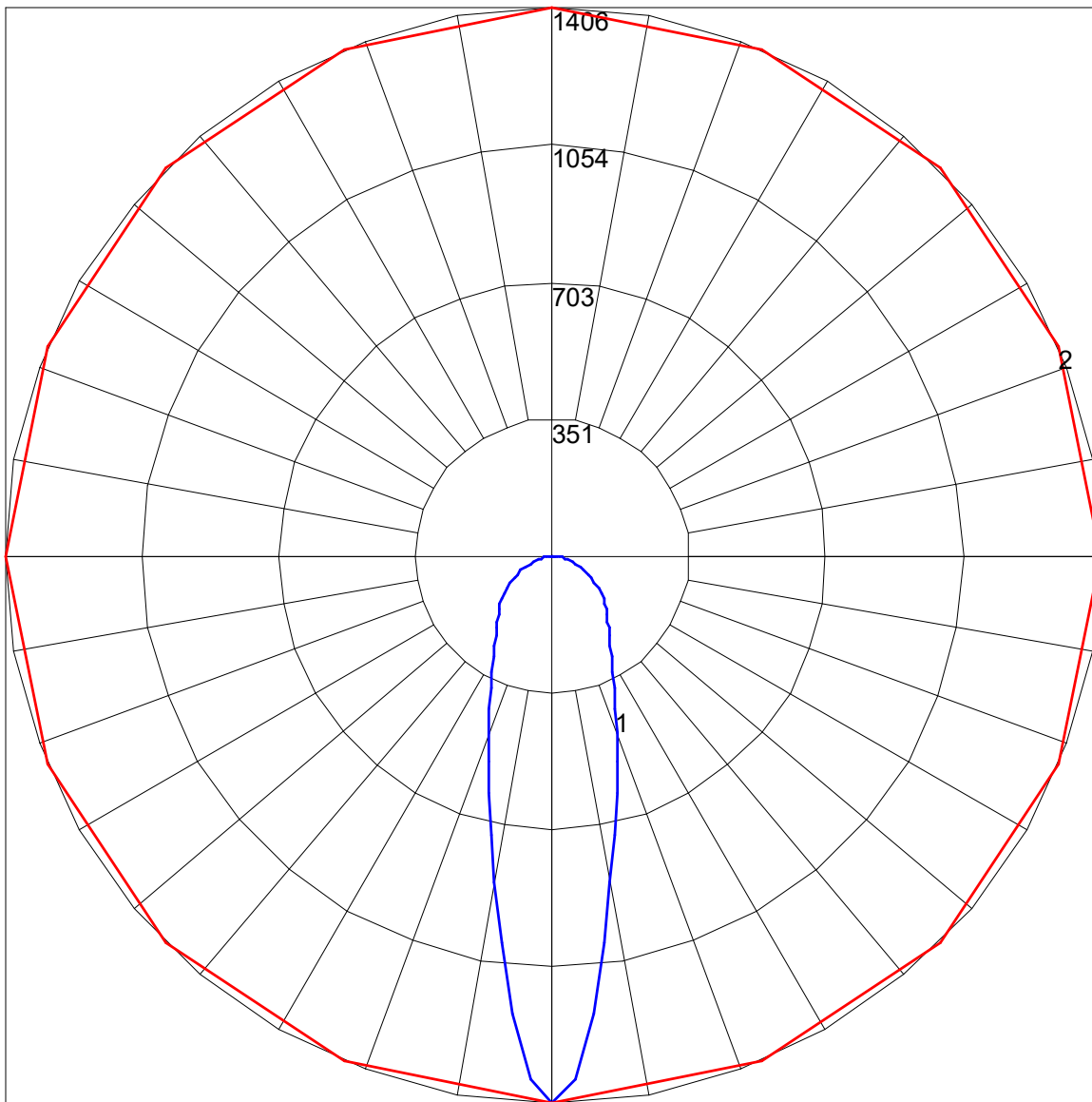
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	66	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	35

POLAR GRAPH



Maximum Candela = 1405.921 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.)