



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P23-FLSH-LED35-LO-MWW-D1W.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P23-FLSH-LED35-LO-MWW-D1W

[TESTLAB] Intertek

[ISSUE DATE] September 6, 2016

[MANUFAC] Prudential Lighting

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1699
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	18.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7951	9175	7038
55	6916	7464	5583
65	4226	6189	4064
75	2380	5166	2499
85	1045	3216	656

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**CANDELA TABULATION**

	<b>0.0</b>	<b>22.5</b>	<b>45.0</b>	<b>67.5</b>	<b>90.0</b>	<b>112.5</b>	<b>135.0</b>	<b>157.5</b>	<b>180.0</b>	<b>202.5</b>
<b>0.0</b>	826.01	826.01	826.01	826.01	826.01	826.01	826.01	826.01	826.01	826.01
<b>2.5</b>	933.12	924.68	891.29	860.75	834.79	794.61	757.91	738.04	728.86	734.81
<b>5.0</b>	1059.02	1040.30	975.18	899.81	827.65	753.85	691.41	654.35	643.65	655.22
<b>7.5</b>	1158.35	1137.71	1058.88	936.70	820.68	714.34	632.77	591.82	579.47	588.63
<b>10.0</b>	1236.89	1210.39	1125.35	973.68	808.34	674.34	582.83	538.92	523.44	537.17
<b>12.5</b>	1269.12	1270.33	1173.22	1005.57	792.77	633.66	540.23	489.42	470.94	487.08
<b>15.0</b>	1184.49	1230.51	1219.38	1033.59	774.40	598.42	495.98	445.75	424.91	442.29
<b>17.5</b>	1079.61	1129.52	1231.66	1053.50	752.91	562.67	456.78	402.14	382.49	399.00
<b>20.0</b>	982.41	1035.67	1178.94	1068.63	729.41	531.92	419.88	361.79	343.00	358.44
<b>22.5</b>	900.74	946.77	1098.08	1071.83	703.14	496.79	383.43	327.69	310.50	325.26
<b>25.0</b>	831.80	869.41	1025.88	1079.59	673.52	465.53	349.12	296.81	284.01	295.54
<b>27.5</b>	771.36	804.15	946.97	1082.10	641.61	433.72	318.54	274.17	265.48	272.44
<b>30.0</b>	697.81	745.51	872.46	1072.86	611.37	402.31	289.42	255.99	254.91	254.14
<b>32.5</b>	639.24	674.05	802.19	1055.81	573.48	372.79	265.51	242.88	249.55	242.18
<b>35.0</b>	597.37	616.75	738.35	1024.15	535.57	343.83	245.28	234.96	243.30	233.23
<b>37.5</b>	554.40	574.50	687.86	978.61	498.42	316.44	226.01	228.49	234.89	226.38
<b>40.0</b>	503.73	530.04	626.57	917.03	458.42	289.17	209.71	219.35	223.54	217.91
<b>42.5</b>	468.50	478.01	558.23	855.15	422.83	263.29	195.19	206.35	217.46	205.79
<b>45.0</b>	435.70	442.60	502.77	796.75	385.63	239.16	181.52	197.05	217.64	195.35
<b>47.5</b>	405.06	409.96	456.72	730.51	348.51	217.37	169.12	193.34	219.54	190.73
<b>50.0</b>	368.71	375.48	411.70	665.62	313.75	196.28	157.99	193.64	217.38	192.32
<b>52.5</b>	340.41	343.96	369.02	599.83	279.01	175.56	146.09	190.41	203.74	189.84
<b>55.0</b>	307.42	311.52	331.75	538.17	248.15	158.62	135.47	181.36	179.49	180.45
<b>57.5</b>	269.41	285.84	293.89	477.07	215.55	141.57	127.18	169.54	150.35	170.00
<b>60.0</b>	225.84	255.59	263.84	413.60	187.29	125.47	116.81	151.93	123.01	151.84
<b>62.5</b>	177.30	220.04	233.38	354.70	160.19	109.62	104.54	131.79	101.69	130.94
<b>65.0</b>	138.40	182.78	202.69	301.21	133.10	95.29	93.42	111.63	83.14	108.28
<b>67.5</b>	106.69	144.56	175.19	251.39	110.32	80.39	82.48	90.57	68.39	89.09
<b>70.0</b>	82.38	111.98	150.47	206.39	86.57	66.36	71.70	74.35	56.11	72.36
<b>72.5</b>	64.11	83.77	127.11	165.18	67.56	54.59	60.61	59.20	44.97	59.09
<b>75.0</b>	47.74	63.28	103.62	127.12	50.12	43.02	48.59	46.41	35.33	44.86
<b>77.5</b>	36.08	44.70	81.25	94.07	35.12	30.61	37.76	34.47	27.31	33.10
<b>80.0</b>	24.98	30.95	58.97	63.96	24.22	21.43	27.67	24.62	17.76	23.10
<b>82.5</b>	15.10	18.52	40.04	39.73	12.15	12.64	16.53	14.41	11.65	14.56
<b>85.0</b>	7.06	9.45	21.72	18.40	4.43	5.05	8.53	6.56	6.11	7.15
<b>87.5</b>	1.66	3.40	8.55	4.81	0.00	0.00	2.33	1.47	1.44	2.26
<b>90.0</b>	0.00	0.00	0.27	0.00	0.00	0.00	0.06	0.00	0.00	0.00
<b>92.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>95.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>97.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>100.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>102.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>105.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>107.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>110.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>112.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>115.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>117.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>120.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>122.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>125.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>127.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>130.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>132.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**CANDELA TABULATION - (Cont.)**

135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.24	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<b>225.0</b>	<b>247.5</b>	<b>270.0</b>	<b>292.5</b>	<b>315.0</b>	<b>337.5</b>	<b>360.0</b>
0.0	826.01	826.01	826.01	826.01	826.01	826.01	826.01
2.5	746.16	782.33	831.31	872.78	903.84	925.45	933.12
5.0	679.94	742.29	827.22	909.38	985.68	1041.18	1059.02
7.5	624.31	700.64	819.11	945.78	1066.79	1135.37	1158.35
10.0	574.85	662.60	807.79	979.41	1128.67	1206.55	1236.89
12.5	532.41	621.96	789.26	1007.70	1172.71	1262.88	1269.12
15.0	491.30	587.31	772.70	1027.46	1218.91	1216.78	1184.49
17.5	449.91	552.26	750.62	1043.96	1214.81	1118.29	1079.61
20.0	412.75	520.04	728.52	1051.23	1157.91	1027.81	982.41
22.5	376.71	490.47	698.37	1061.67	1080.98	940.86	900.74
25.0	343.21	452.91	668.99	1060.27	1003.82	864.73	831.80
27.5	315.03	422.46	636.79	1055.99	933.00	799.89	771.36
30.0	286.17	391.80	599.45	1039.58	854.26	736.77	697.81
32.5	261.05	364.03	562.15	1012.83	784.13	667.80	639.24
35.0	242.15	334.12	525.98	978.53	722.42	608.31	597.37
37.5	221.96	306.18	490.12	930.82	668.80	566.59	554.40
40.0	205.92	279.03	452.66	878.27	609.28	521.93	503.73
42.5	191.48	253.09	418.47	819.20	543.89	473.28	468.50
45.0	177.69	230.71	380.61	764.66	490.55	435.39	435.70
47.5	166.04	209.06	341.10	699.65	442.72	402.63	405.06
50.0	155.59	187.69	305.59	641.07	396.65	370.71	368.71
52.5	144.03	168.52	274.93	572.95	355.93	337.68	340.41
55.0	132.35	152.27	240.30	514.65	318.93	306.56	307.42
57.5	123.18	134.38	211.96	450.86	284.75	278.67	269.41
60.0	113.81	119.37	183.07	391.05	252.96	248.68	225.84
62.5	103.35	103.54	155.58	336.71	223.65	215.53	177.30
65.0	91.16	91.14	131.09	284.78	194.58	177.58	138.40
67.5	79.43	77.13	107.31	235.73	168.15	141.35	106.69
70.0	69.48	64.34	86.71	191.98	143.16	111.66	82.38
72.5	57.82	52.16	66.51	153.16	120.16	84.01	64.11
75.0	48.92	39.13	50.07	117.73	97.36	61.80	47.74
77.5	37.68	30.44	36.08	85.71	74.55	44.96	36.08
80.0	27.55	20.88	23.67	57.73	54.04	30.80	24.98

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**CANDELA TABULATION - (Cont.)**

82.5	16.94	12.06	13.59	34.78	34.28	18.67	15.10
85.0	8.52	4.94	4.50	15.41	18.32	9.17	7.06
87.5	1.61	0.00	0.09	2.45	6.38	2.04	1.66
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	309.01	N.A.	18.20
0-30	613.45	N.A.	36.10
0-40	935.28	N.A.	55.00
0-60	1465.79	N.A.	86.30
0-80	1685.87	N.A.	99.20
0-90	1699.22	N.A.	100.00
10-90	1618.96	N.A.	95.30
20-40	626.27	N.A.	36.90
20-50	920.13	N.A.	54.20
40-70	681.46	N.A.	40.10
60-80	220.08	N.A.	13.00
70-80	69.13	N.A.	4.10
80-90	13.35	N.A.	0.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1699.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	80.26
10-20	228.76
20-30	304.43
30-40	321.84
40-50	293.86
50-60	236.64
60-70	150.96
70-80	69.13
80-90	13.35
90-100	0.00
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

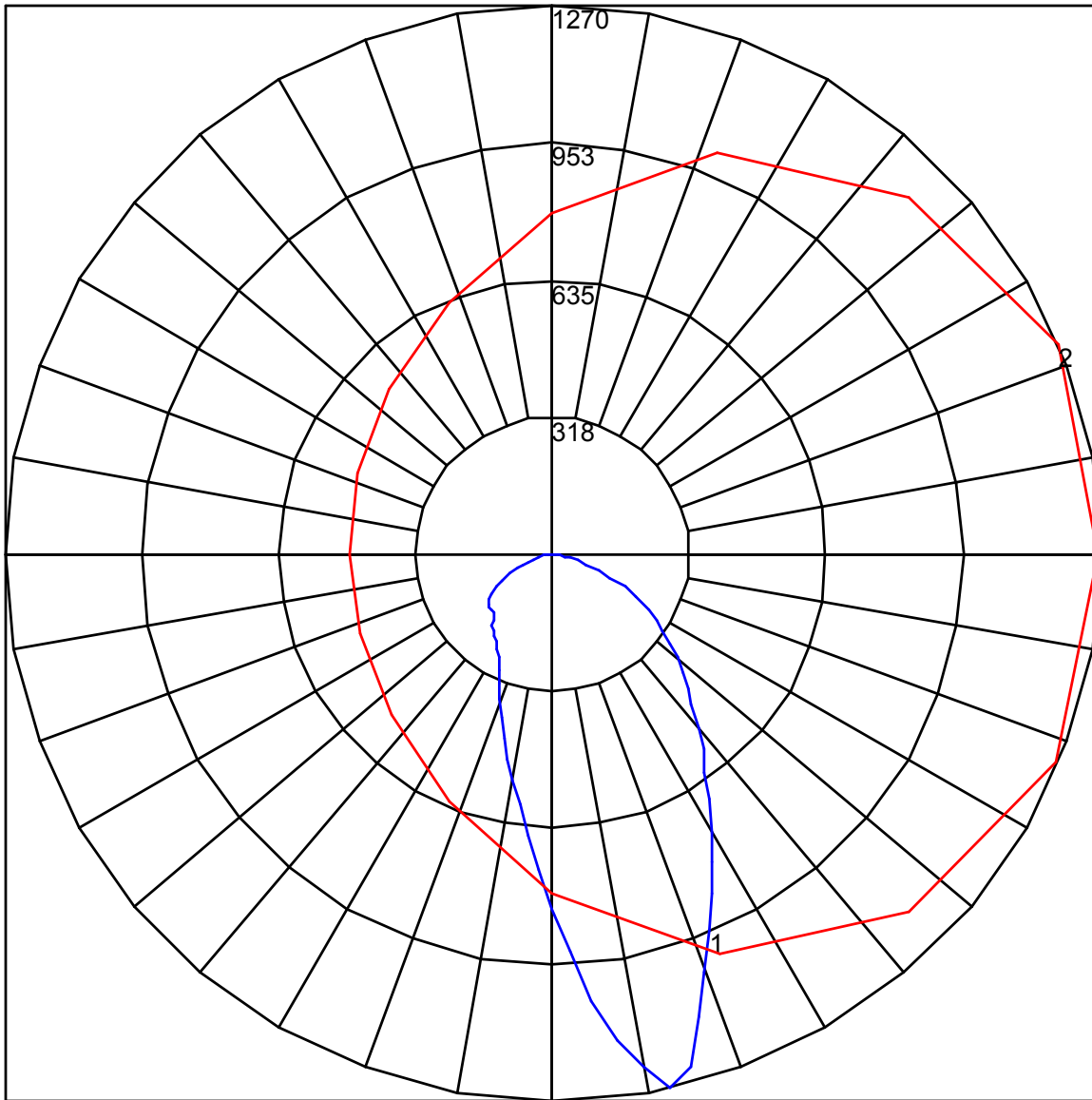
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

POLAR GRAPH



Maximum Candela = 1270.33 Located At Horizontal Angle = 22.5, Vertical Angle = 12.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)