



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P23-FLSH-LED35-MO-MWW-D1R.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P23-FLSH-LED35-MO-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	2124
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	24
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)	0.21 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	9939	11469	8797
55	8646	9330	6979
65	5283	7736	5080
75	2975	6458	3124
85	1307	4020	820

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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	1032.513	1032.513	1032.513	1032.513	1032.513	1032.513	1032.513	1032.513	1032.513	1032.513
2.5	1166.400	1155.850	1114.112	1075.938	1043.487	993.263	947.388	922.550	911.075	918.513
5.0	1323.775	1300.375	1218.975	1124.763	1034.563	942.313	864.263	817.938	804.563	819.025
7.5	1447.938	1422.138	1323.600	1170.875	1025.850	892.925	790.962	739.775	724.337	735.788
10.0	1546.112	1512.987	1406.688	1217.100	1010.425	842.925	728.538	673.650	654.300	671.462
12.5	1586.400	1587.912	1466.525	1256.963	990.962	792.075	675.288	611.775	588.675	608.850
15.0	1480.612	1538.138	1524.225	1291.987	968.000	748.025	619.975	557.188	531.138	552.862
17.5	1349.513	1411.900	1539.575	1316.875	941.138	703.337	570.975	502.675	478.113	498.750
20.0	1228.013	1294.588	1473.675	1335.787	911.763	664.900	524.850	452.238	428.750	448.050
22.5	1125.925	1183.463	1372.600	1339.787	878.925	620.987	479.288	409.613	388.125	406.575
25.0	1039.750	1086.763	1282.350	1349.487	841.900	581.913	436.400	371.012	355.012	369.425
27.5	964.200	1005.188	1183.713	1352.625	802.013	542.150	398.175	342.712	331.850	340.550
30.0	872.263	931.888	1090.575	1341.075	764.212	502.887	361.775	319.988	318.637	317.675
32.5	799.050	842.563	1002.737	1319.763	716.850	465.988	331.887	303.600	311.938	302.725
35.0	746.712	770.938	922.938	1280.188	669.462	429.788	306.600	293.700	304.125	291.538
37.5	693.000	718.125	859.825	1223.263	623.025	395.550	282.512	285.613	293.613	282.975
40.0	629.663	662.550	783.212	1146.287	573.025	361.462	262.137	274.188	279.425	272.387
42.5	585.625	597.513	697.788	1068.938	528.538	329.113	243.988	257.938	271.825	257.238
45.0	544.625	553.250	628.462	995.938	482.038	298.950	226.900	246.313	272.050	244.188
47.5	506.325	512.450	570.900	913.138	435.637	271.712	211.400	241.675	274.425	238.412
50.0	460.887	469.350	514.625	832.025	392.188	245.350	197.488	242.050	271.725	240.400
52.5	425.512	429.950	461.275	749.788	348.762	219.450	182.613	238.012	254.675	237.300
55.0	384.275	389.400	414.688	672.712	310.188	198.275	169.338	226.700	224.363	225.563
57.5	336.762	357.300	367.363	596.337	269.438	176.963	158.975	211.925	187.938	212.500
60.0	282.300	319.488	329.800	517.000	234.113	156.838	146.012	189.912	153.762	189.800
62.5	221.625	275.050	291.725	443.375	200.238	137.025	130.675	164.738	127.112	163.675
65.0	173.000	228.475	253.363	376.512	166.375	119.112	116.775	139.537	103.925	135.350
67.5	133.363	180.700	218.988	314.238	137.900	100.487	103.100	113.213	85.487	111.362
70.0	102.975	139.975	188.088	257.988	108.213	82.950	89.625	92.938	70.138	90.450
72.5	80.138	104.713	158.887	206.475	84.450	68.237	75.763	74.000	56.212	73.862
75.0	59.675	79.100	129.525	158.900	62.650	53.775	60.737	58.013	44.163	56.075
77.5	45.100	55.875	101.563	117.588	43.900	38.263	47.200	43.087	34.138	41.375
80.0	31.225	38.688	73.713	79.950	30.275	26.788	34.587	30.775	22.200	28.875
82.5	18.875	23.150	50.050	49.663	15.188	15.800	20.663	18.012	14.563	18.200
85.0	8.825	11.813	27.150	23.000	5.537	6.313	10.662	8.200	7.638	8.938
87.5	2.075	4.250	10.688	6.013	0.000	0.000	2.913	1.837	1.800	2.825
90.0	0.000	0.000	0.338	0.000	0.000	0.000	0.075	0.000	0.000	0.000
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	0.013	0.000	0.000	0.000	0.300	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	0.200	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	1032.513	1032.513	1032.513	1032.513	1032.513	1032.513	1032.513
2.5	932.700	977.913	1039.138	1090.975	1129.800	1156.813	1166.400
5.0	849.925	927.862	1034.025	1136.725	1232.100	1301.475	1323.775
7.5	780.388	875.800	1023.888	1182.225	1333.487	1419.213	1447.938
10.0	718.563	828.250	1009.737	1224.263	1410.838	1508.188	1546.112
12.5	665.513	777.450	986.575	1259.625	1465.888	1578.600	1586.400
15.0	614.125	734.138	965.875	1284.325	1523.638	1520.975	1480.612
17.5	562.388	690.325	938.275	1304.950	1518.513	1397.862	1349.513
20.0	515.938	650.050	910.650	1314.037	1447.388	1284.763	1228.013
22.5	470.887	613.087	872.962	1327.088	1351.225	1176.075	1125.925
25.0	429.012	566.138	836.237	1325.338	1254.775	1080.912	1039.750
27.5	393.788	528.075	795.987	1319.987	1166.250	999.862	964.200
30.0	357.712	489.750	749.313	1299.475	1067.825	920.962	872.263
32.5	326.313	455.038	702.688	1266.037	980.163	834.750	799.050
35.0	302.688	417.650	657.475	1223.162	903.025	760.388	746.712
37.5	277.450	382.725	612.650	1163.525	836.000	708.237	693.000
40.0	257.400	348.788	565.825	1097.838	761.600	652.413	629.663
42.5	239.350	316.363	523.087	1024.000	679.862	591.600	585.625
45.0	222.113	288.387	475.762	955.825	613.188	544.237	544.625
47.5	207.550	261.325	426.375	874.563	553.400	503.288	506.325
50.0	194.488	234.613	381.988	801.337	495.813	463.387	460.887
52.5	180.037	210.650	343.663	716.188	444.913	422.100	425.512
55.0	165.438	190.338	300.375	643.313	398.663	383.200	384.275
57.5	153.975	167.975	264.950	563.575	355.938	348.337	336.762
60.0	142.262	149.213	228.838	488.813	316.200	310.850	282.300
62.5	129.188	129.425	194.475	420.887	279.563	269.413	221.625
65.0	113.950	113.925	163.863	355.975	243.225	221.975	173.000
67.5	99.287	96.412	134.137	294.663	210.188	176.688	133.363
70.0	86.850	80.425	108.388	239.975	178.950	139.575	102.975
72.5	72.275	65.200	83.138	191.450	150.200	105.013	80.138
75.0	61.150	48.913	62.587	147.162	121.700	77.250	59.675
77.5	47.100	38.050	45.100	107.138	93.188	56.200	45.100
80.0	34.438	26.100	29.587	72.162	67.550	38.500	31.225

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CANDELA TABULATION - (Cont.)

82.5	21.175	15.075	16.988	43.475	42.850	23.337	18.875
85.0	10.650	6.175	5.625	19.262	22.900	11.463	8.825
87.5	2.013	0.000	0.113	3.063	7.975	2.550	2.075
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	386.27	N.A.	18.20
0-30	766.81	N.A.	36.10
0-40	1169.1	N.A.	55.00
0-60	1832.24	N.A.	86.30
0-80	2107.34	N.A.	99.20
0-90	2124.02	N.A.	100.00
10-90	2023.7	N.A.	95.30
20-40	782.84	N.A.	36.90
20-50	1150.17	N.A.	54.20
40-70	851.83	N.A.	40.10
60-80	275.10	N.A.	13.00
70-80	86.41	N.A.	4.10
80-90	16.69	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	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2124.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.32
10-20	285.94
20-30	380.54
30-40	402.29
40-50	367.33
50-60	295.80
60-70	188.69
70-80	86.41
80-90	16.69
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

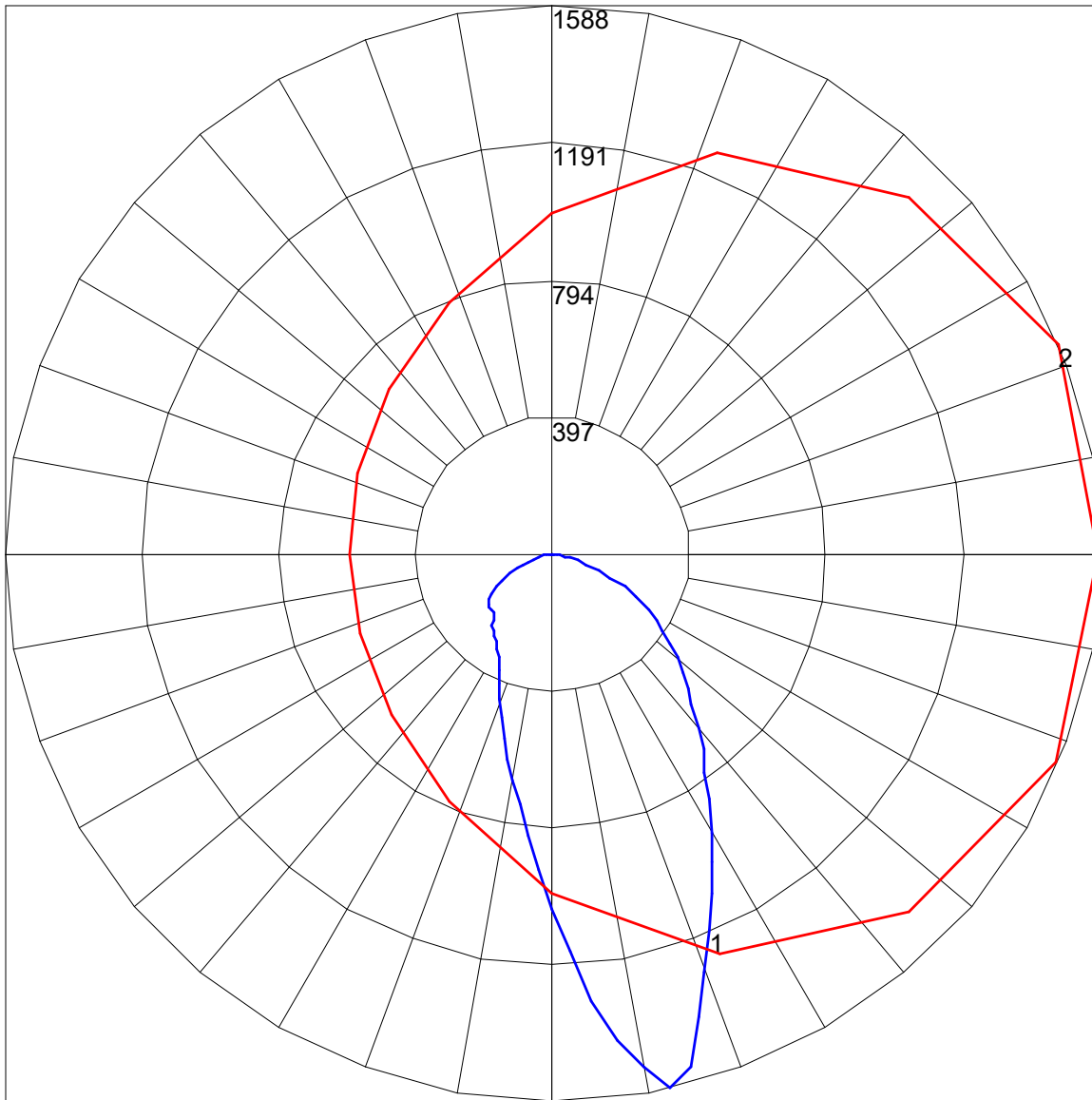
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	97	100	97	94	96	94	92	92	90	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 = 1587.912 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.)