



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P23-FLSH-LED35-HO-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	3144
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	40
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	14710	16975	13020
55	12796	13808	10329
65	7818	11450	7519
75	4404	9558	4623
85	1934	5950	1214

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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	1528.119	1528.119	1528.119	1528.119	1528.119	1528.119	1528.119	1528.119	1528.119	1528.119
2.5	1726.272	1710.658	1648.887	1592.388	1544.362	1470.029	1402.134	1365.374	1348.391	1359.399
5.0	1959.187	1924.555	1804.083	1664.649	1531.153	1394.623	1279.109	1210.548	1190.753	1212.157
7.5	2142.948	2104.764	1958.928	1732.895	1518.258	1321.529	1170.625	1094.867	1072.020	1088.966
10.0	2288.247	2239.222	2081.898	1801.308	1495.429	1247.529	1078.236	997.002	968.364	993.765
12.5	2347.872	2350.111	2170.457	1860.305	1466.625	1172.271	999.426	905.427	871.239	901.098
15.0	2191.307	2276.444	2255.853	1912.142	1432.640	1107.077	917.563	824.638	786.084	818.237
17.5	1997.279	2089.612	2278.571	1948.975	1392.884	1040.940	845.043	743.959	707.607	738.150
20.0	1817.459	1915.990	2181.039	1976.966	1349.409	984.052	776.778	669.312	634.550	663.114
22.5	1666.369	1751.525	2031.448	1982.886	1300.809	919.062	709.346	606.227	574.425	601.731
25.0	1538.830	1608.409	1897.878	1997.242	1246.012	861.231	645.872	549.099	525.419	546.749
27.5	1427.016	1487.678	1751.895	2001.885	1186.979	802.382	589.299	507.215	491.138	504.014
30.0	1290.949	1379.194	1614.051	1984.791	1131.035	744.274	535.427	473.582	471.584	470.159
32.5	1182.594	1246.993	1484.052	1953.249	1060.938	689.662	491.194	449.328	461.668	448.033
35.0	1105.135	1140.988	1365.948	1894.678	990.805	636.086	453.768	434.676	450.105	431.476
37.5	1025.640	1062.825	1272.541	1810.429	922.077	585.414	418.119	422.707	434.547	418.803
40.0	931.901	980.574	1159.155	1696.506	848.077	534.965	387.964	405.798	413.549	403.134
42.5	866.725	884.319	1032.726	1582.028	782.236	487.087	361.102	381.748	402.301	380.712
45.0	806.045	818.810	930.125	1473.988	713.416	442.446	335.812	364.543	402.634	361.398
47.5	749.361	758.426	844.932	1351.444	644.744	402.135	312.872	357.679	406.149	352.851
50.0	682.114	694.638	761.645	1231.397	580.438	363.118	292.282	358.234	402.153	355.792
52.5	629.759	636.326	682.687	1109.686	516.169	324.786	270.267	352.259	376.919	351.204
55.0	568.727	576.312	613.738	995.615	459.078	293.447	250.620	335.516	332.057	333.833
57.5	498.409	528.804	543.697	882.580	398.768	261.905	235.283	313.649	278.148	314.500
60.0	417.804	472.842	488.104	765.160	346.487	232.120	216.099	281.071	227.569	280.904
62.5	328.005	407.074	431.753	656.195	296.352	202.797	193.399	243.812	188.127	242.239
65.0	256.040	338.143	374.977	557.239	246.235	176.287	172.827	206.516	153.809	200.318
67.5	197.377	267.436	324.102	465.072	204.092	148.722	152.588	167.555	126.522	164.817
70.0	152.403	207.163	278.370	381.822	160.155	122.766	132.645	137.548	103.804	133.866
72.5	118.604	154.975	235.154	305.583	124.986	100.992	112.129	109.520	83.195	109.317
75.0	88.319	117.068	191.697	235.172	92.722	79.587	89.892	85.859	65.361	82.991
77.5	66.748	82.695	150.313	174.030	64.972	56.629	69.856	63.770	50.524	61.235
80.0	46.213	57.258	109.095	118.326	44.807	39.646	51.190	45.547	32.856	42.735
82.5	27.935	34.262	74.074	73.501	22.478	23.384	30.581	26.659	21.553	26.936
85.0	13.061	17.483	40.182	34.040	8.196	9.343	15.781	12.136	11.304	13.228
87.5	3.071	6.290	15.818	8.899	0.000	0.000	4.311	2.720	2.664	4.181
90.0	0.000	0.000	0.500	0.000	0.000	0.000	0.111	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	0.019	0.000	0.000	0.000	0.444	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	0.296	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	1528.119	1528.119	1528.119	1528.119	1528.119	1528.119	1528.119
2.5	1380.396	1447.311	1537.924	1614.643	1672.104	1712.083	1726.272
5.0	1257.889	1373.237	1530.357	1682.353	1823.508	1926.183	1959.187
7.5	1154.974	1296.184	1515.354	1749.693	1973.562	2100.435	2142.948
10.0	1063.473	1225.810	1494.412	1811.909	2088.040	2232.118	2288.247
12.5	984.959	1150.626	1460.131	1864.245	2169.514	2336.328	2347.872
15.0	908.905	1086.524	1429.495	1900.801	2254.984	2251.043	2191.307
17.5	832.334	1021.681	1388.647	1931.326	2247.399	2068.837	1997.279
20.0	763.588	962.074	1347.762	1944.776	2142.134	1901.449	1817.459
22.5	696.914	907.370	1291.985	1964.090	1999.813	1740.591	1666.369
25.0	634.939	837.884	1237.632	1961.500	1857.067	1599.751	1538.830
27.5	582.806	781.551	1178.062	1953.582	1726.050	1479.797	1427.016
30.0	529.415	724.830	1108.983	1923.223	1580.381	1363.025	1290.949
32.5	482.943	673.456	1039.978	1873.736	1450.641	1235.430	1182.594
35.0	447.978	618.122	973.063	1810.281	1336.477	1125.374	1105.135
37.5	410.626	566.433	906.722	1722.017	1237.280	1048.192	1025.640
40.0	380.952	516.206	837.421	1624.800	1127.168	965.571	931.901
42.5	354.238	468.217	774.170	1515.520	1006.197	875.568	866.725
45.0	328.727	426.814	704.129	1414.621	907.518	805.472	806.045
47.5	307.174	386.761	631.035	1294.353	819.032	744.866	749.361
50.0	287.842	347.227	565.342	1185.980	733.803	685.814	682.114
52.5	266.456	311.762	508.621	1059.958	658.471	624.708	629.759
55.0	244.848	281.700	444.555	952.103	590.021	567.136	568.727
57.5	227.883	248.603	392.126	834.091	526.788	515.540	498.409
60.0	210.549	220.835	338.680	723.443	467.976	460.058	417.804
62.5	191.198	191.549	287.823	622.914	413.753	398.731	328.005
65.0	168.646	168.609	242.517	526.843	359.973	328.523	256.040
67.5	146.946	142.691	198.524	436.101	311.078	261.498	197.377
70.0	128.538	119.029	160.414	355.163	264.846	206.571	152.403
72.5	106.967	96.496	123.044	283.346	222.296	155.419	118.604
75.0	90.502	72.391	92.630	217.801	180.116	114.330	88.319
77.5	69.708	56.314	66.748	158.564	137.918	83.176	66.748
80.0	50.968	38.628	43.790	106.801	99.974	56.980	46.213

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CANDELA TABULATION - (Cont.)

82.5	31.339	22.311	25.142	64.343	63.418	34.540	27.935
85.0	15.762	9.139	8.325	28.509	33.892	16.965	13.061
87.5	2.979	0.000	0.167	4.533	11.803	3.774	3.071
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	571.67	N.A.	18.20
0-30	1134.88	N.A.	36.10
0-40	1730.27	N.A.	55.00
0-60	2711.71	N.A.	86.30
0-80	3118.86	N.A.	99.20
0-90	3143.56	N.A.	100.00
10-90	2995.08	N.A.	95.30
20-40	1158.6	N.A.	36.90
20-50	1702.25	N.A.	54.20
40-70	1260.7	N.A.	40.10
60-80	407.15	N.A.	13.00
70-80	127.88	N.A.	4.10
80-90	24.70	N.A.	0.80
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3143.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.48
10-20	423.20
20-30	563.20
30-40	595.40
40-50	543.65
50-60	437.79
60-70	279.27
70-80	127.88
80-90	24.70
90-100	0.01
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

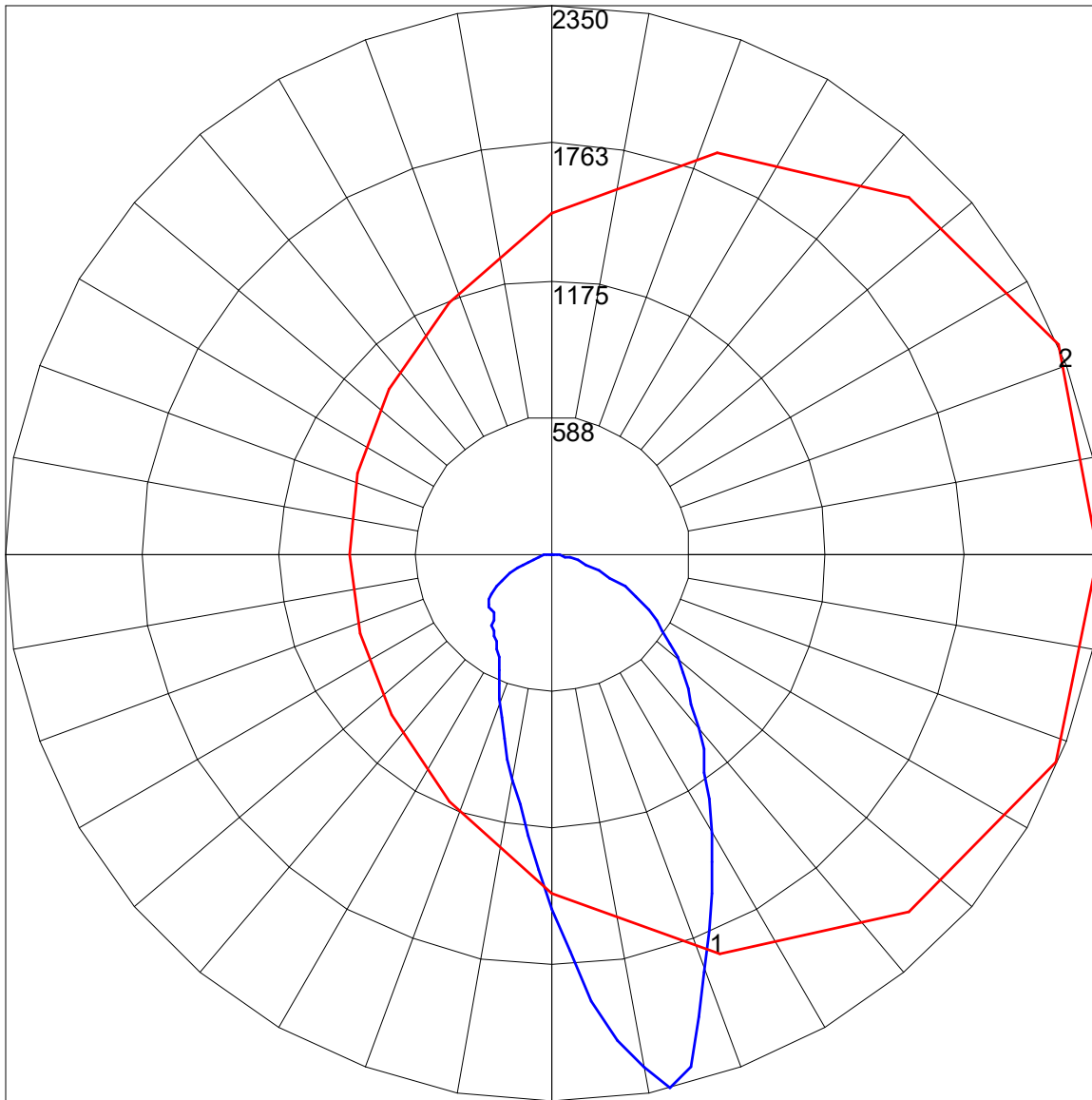
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2350.111 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.)