



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P23-PER-FLSH-LED35-SO-MWW-D1R.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P23-PER-FLSH-LED35-SO-MWW-D1R

[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	3280
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	39
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	15346	17709	13583
55	13349	14405	10775
65	8156	11945	7844
75	4594	9971	4823
85	2018	6207	1266

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	1594.199	1594.199	1594.199	1594.199	1594.199	1594.199	1594.199	1594.199	1594.199	1594.199
2.5	1800.922	1784.632	1720.190	1661.247	1611.145	1533.597	1462.766	1424.417	1406.700	1418.183
5.0	2043.909	2007.779	1882.097	1736.633	1597.364	1454.930	1334.421	1262.895	1242.244	1264.575
7.5	2235.615	2195.780	2043.638	1807.831	1583.912	1378.676	1221.246	1142.213	1118.377	1136.056
10.0	2387.198	2336.053	2171.925	1879.202	1560.096	1301.476	1124.862	1040.116	1010.239	1036.738
12.5	2449.402	2451.737	2264.315	1940.750	1530.046	1222.964	1042.644	944.581	908.914	940.064
15.0	2286.066	2374.884	2353.403	1994.829	1494.592	1154.951	957.241	860.297	820.076	853.620
17.5	2083.647	2179.974	2377.104	2033.255	1453.116	1085.953	881.585	776.130	738.206	770.070
20.0	1896.051	1998.843	2275.354	2062.456	1407.761	1026.606	810.368	698.255	661.990	691.789
22.5	1738.428	1827.266	2119.294	2068.632	1357.060	958.805	740.020	632.442	599.265	627.752
25.0	1605.374	1677.961	1979.948	2083.609	1299.894	898.473	673.802	572.843	548.139	570.392
27.5	1488.725	1552.009	1827.652	2088.453	1238.307	837.080	614.782	529.148	512.376	525.809
30.0	1346.773	1438.834	1683.848	2070.620	1179.944	776.458	558.581	494.061	491.976	490.490
32.5	1233.733	1300.916	1548.227	2037.713	1106.816	719.485	512.434	468.758	481.631	467.407
35.0	1152.924	1190.327	1425.015	1976.609	1033.650	663.592	473.390	453.473	469.569	450.134
37.5	1069.992	1108.785	1327.570	1888.717	961.951	610.729	436.199	440.986	453.338	436.913
40.0	972.199	1022.977	1209.280	1769.868	884.751	558.098	404.740	423.345	431.432	420.566
42.5	904.205	922.559	1077.384	1650.439	816.062	508.150	376.717	398.255	419.698	397.175
45.0	840.901	854.218	970.346	1537.727	744.266	461.579	350.334	380.306	420.045	377.025
47.5	781.766	791.223	881.470	1409.884	672.624	419.524	326.402	373.146	423.712	368.109
50.0	711.610	724.676	794.581	1284.647	605.537	378.820	304.921	373.725	419.543	371.178
52.5	656.991	663.843	712.209	1157.672	538.489	338.831	281.954	367.491	393.218	366.391
55.0	593.321	601.234	640.277	1038.668	478.929	306.137	261.457	350.025	346.416	348.268
57.5	519.961	551.671	567.208	920.745	416.011	273.230	245.457	327.212	290.175	328.100
60.0	435.871	493.289	509.211	798.248	361.470	242.157	225.443	293.225	237.409	293.051
62.5	342.189	424.677	450.423	684.571	309.167	211.567	201.762	254.355	196.262	252.714
65.0	267.112	352.765	391.192	581.335	256.883	183.910	180.301	215.446	160.460	208.980
67.5	205.912	279.001	338.117	485.183	212.918	155.153	159.186	174.800	131.993	171.944
70.0	158.993	216.121	290.407	398.333	167.080	128.075	138.381	143.495	108.292	139.655
72.5	123.732	161.676	245.322	318.797	130.391	105.359	116.977	114.256	86.792	114.044
75.0	92.138	122.130	199.987	245.342	96.732	83.029	93.779	89.571	68.187	86.580
77.5	69.634	86.271	156.812	181.555	67.782	59.077	72.877	66.527	52.708	63.883
80.0	48.211	59.733	113.812	123.443	46.745	41.360	53.403	47.517	34.277	44.583
82.5	29.143	35.744	77.277	76.679	23.449	24.395	31.903	27.811	22.484	28.101
85.0	13.626	18.238	41.920	35.512	8.550	9.746	16.463	12.661	11.792	13.799
87.5	3.204	6.562	16.501	9.283	0.000	0.000	4.497	2.837	2.779	4.362
90.0	0.000	0.000	0.521	0.000	0.000	0.000	0.116	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	0.463	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	0.309	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**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	1594.199	1594.199	1594.199	1594.199	1594.199	1594.199	1594.199
2.5	1440.089	1509.897	1604.428	1684.465	1744.411	1786.118	1800.922
5.0	1312.284	1432.620	1596.535	1755.103	1902.362	2009.477	2043.909
7.5	1204.918	1352.235	1580.882	1825.355	2058.905	2191.264	2235.615
10.0	1109.460	1278.818	1559.035	1890.261	2178.333	2328.641	2387.198
12.5	1027.551	1200.383	1523.272	1944.861	2263.330	2437.358	2449.402
15.0	948.209	1133.508	1491.311	1982.998	2352.496	2348.385	2286.066
17.5	868.326	1065.862	1448.697	2014.843	2344.583	2158.300	2083.647
20.0	796.607	1003.677	1406.044	2028.874	2234.766	1983.673	1896.051
22.5	727.050	946.607	1347.854	2049.023	2086.291	1815.860	1738.428
25.0	662.395	874.116	1291.151	2046.321	1937.373	1668.929	1605.374
27.5	608.008	815.348	1229.005	2038.061	1800.690	1543.788	1488.725
30.0	552.308	756.174	1156.938	2006.389	1648.722	1421.966	1346.773
32.5	503.826	702.578	1084.949	1954.762	1513.371	1288.854	1233.733
35.0	467.349	644.852	1015.141	1888.563	1394.271	1174.038	1152.924
37.5	428.383	590.927	945.932	1796.483	1290.784	1093.519	1069.992
40.0	397.426	538.528	873.634	1695.061	1175.910	1007.325	972.199
42.5	369.556	488.464	807.647	1581.056	1049.708	913.430	904.205
45.0	342.942	445.270	734.577	1475.794	946.761	840.303	840.901
47.5	320.457	403.486	658.323	1350.324	854.450	777.076	781.766
50.0	300.289	362.242	589.789	1237.265	765.534	715.470	711.610
52.5	277.978	325.244	530.615	1105.793	686.945	651.722	656.991
55.0	255.435	293.881	463.779	993.274	615.535	591.661	593.321
57.5	237.737	259.353	409.083	870.160	549.567	537.833	519.961
60.0	219.653	230.384	353.325	754.726	488.213	479.952	435.871
62.5	199.465	199.832	300.269	649.850	431.644	415.973	342.189
65.0	175.939	175.900	253.004	549.625	375.539	342.729	267.112
67.5	153.300	148.861	207.108	454.959	324.529	272.805	205.912
70.0	134.096	124.176	167.350	370.521	276.299	215.504	158.993
72.5	111.593	100.669	128.364	295.599	231.909	162.139	123.732
75.0	94.416	75.521	96.635	227.219	187.905	119.274	92.138
77.5	72.722	58.749	69.634	165.420	143.881	86.773	69.634
80.0	53.171	40.298	45.683	111.419	104.297	59.444	48.211

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CANDELA TABULATION - (Cont.)

82.5	32.694	23.276	26.229	67.125	66.160	36.033	29.143
85.0	16.444	9.534	8.685	29.741	35.358	17.698	13.626
87.5	3.107	0.000	0.174	4.728	12.313	3.937	3.204
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	596.39	N.A.	18.20
0-30	1183.95	N.A.	36.10
0-40	1805.1	N.A.	55.00
0-60	2828.97	N.A.	86.30
0-80	3253.73	N.A.	99.20
0-90	3279.49	N.A.	100.00
10-90	3124.6	N.A.	95.30
20-40	1208.7	N.A.	36.90
20-50	1775.86	N.A.	54.20
40-70	1315.22	N.A.	40.10
60-80	424.75	N.A.	13.00
70-80	133.41	N.A.	4.10
80-90	25.76	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	3279.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.90
10-20	441.50
20-30	587.56
30-40	621.14
40-50	567.16
50-60	456.72
60-70	291.34
70-80	133.41
80-90	25.76
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

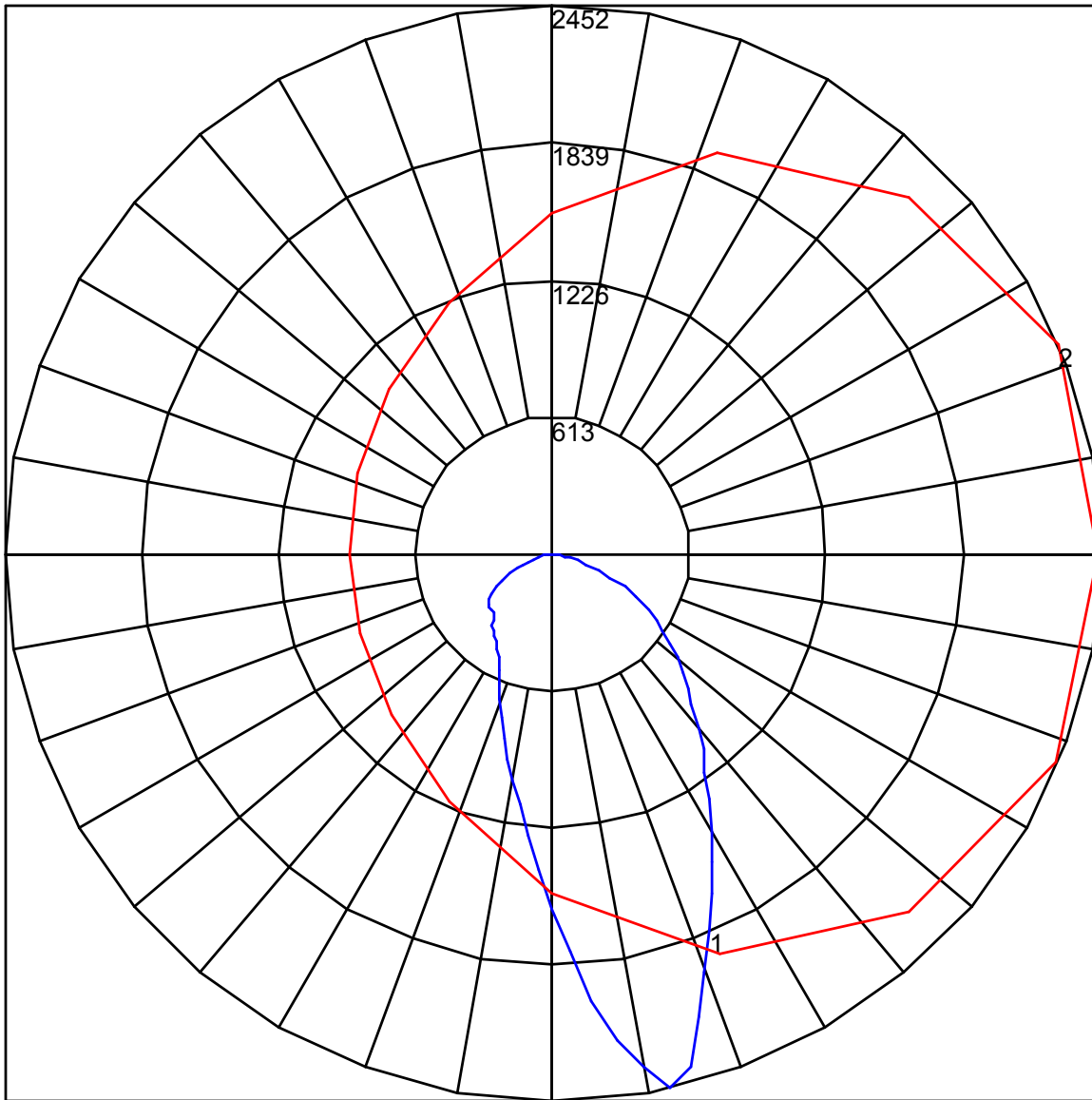
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2451.737 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.)