



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P23-FLSH-LED35-MO-MWW-D1W.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	2464
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	28
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	11530	13304	10205
55	10029	10823	8095
65	6128	8974	5893
75	3451	7491	3623
85	1516	4663	951

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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	1197.715	1197.715	1197.715	1197.715	1197.715	1197.715	1197.715	1197.715	1197.715	1197.715
2.5	1353.024	1340.786	1292.371	1248.088	1210.446	1152.185	1098.970	1070.158	1056.847	1065.475
5.0	1535.579	1508.435	1414.011	1304.725	1200.093	1093.083	1002.545	948.808	933.293	950.069
7.5	1679.608	1649.680	1535.376	1358.215	1189.986	1035.793	917.517	858.139	840.232	853.514
10.0	1793.491	1755.066	1631.758	1411.836	1172.093	977.793	845.104	781.434	758.988	778.897
12.5	1840.224	1841.979	1701.169	1458.077	1149.517	918.807	783.334	709.659	682.863	706.266
15.0	1717.511	1784.240	1768.101	1498.706	1122.880	867.709	719.171	646.338	616.120	641.321
17.5	1565.435	1637.804	1785.907	1527.575	1091.720	815.872	662.331	583.103	554.611	578.550
20.0	1424.495	1501.722	1709.463	1549.514	1057.645	771.284	608.826	524.596	497.350	519.738
22.5	1306.073	1372.817	1592.216	1554.154	1019.553	720.346	555.974	475.151	450.225	471.627
25.0	1206.110	1260.645	1487.526	1565.406	976.604	675.019	506.224	430.375	411.815	428.533
27.5	1118.472	1166.018	1373.107	1569.045	930.335	628.894	461.883	397.547	384.946	395.038
30.0	1011.825	1080.990	1265.067	1555.647	886.487	583.350	419.659	371.186	369.620	368.503
32.5	926.898	977.373	1163.176	1530.925	831.546	540.546	384.990	352.176	361.848	351.161
35.0	866.187	894.288	1070.608	1485.018	776.577	498.554	355.656	340.692	352.785	338.184
37.5	803.880	833.025	997.397	1418.985	722.709	458.838	327.715	331.311	340.591	328.251
40.0	730.409	768.558	908.527	1329.694	664.709	419.297	304.080	318.058	324.133	315.970
42.5	679.325	693.115	809.434	1239.968	613.104	381.771	283.026	299.208	315.317	298.396
45.0	631.765	641.770	729.017	1155.288	559.164	346.782	263.204	285.723	315.578	283.258
47.5	587.337	594.442	662.244	1059.240	505.340	315.187	245.224	280.343	318.333	276.559
50.0	534.630	544.446	596.965	965.149	454.938	284.606	229.086	280.778	315.201	278.864
52.5	493.595	498.742	535.079	869.754	404.565	254.562	211.831	276.095	295.423	275.268
55.0	445.759	451.704	481.038	780.347	359.818	229.999	196.432	262.972	260.261	261.653
57.5	390.645	414.468	426.141	691.752	312.548	205.277	184.411	245.833	218.008	246.500
60.0	327.468	370.606	382.568	599.720	271.571	181.932	169.375	220.299	178.365	220.168
62.5	257.085	319.058	338.401	514.315	232.276	158.949	151.583	191.096	147.451	189.863
65.0	200.680	265.031	293.901	436.755	192.995	138.171	135.459	161.864	120.553	157.006
67.5	154.701	209.612	254.026	364.516	159.964	116.566	119.596	131.327	99.166	129.181
70.0	119.451	162.371	218.182	299.266	125.527	96.222	103.965	107.808	81.360	104.922
72.5	92.960	121.467	184.310	239.511	97.962	79.156	87.885	85.840	65.207	85.681
75.0	69.223	91.756	150.249	184.324	72.674	62.379	70.456	67.295	51.229	65.047
77.5	52.316	64.815	117.813	136.402	50.924	44.385	54.752	49.982	39.600	47.995
80.0	36.221	44.878	85.507	92.742	35.119	31.074	40.122	35.699	25.752	33.495
82.5	21.895	26.854	58.058	57.609	17.618	18.328	23.969	20.895	16.893	21.112
85.0	10.237	13.703	31.494	26.680	6.424	7.323	12.369	9.512	8.860	10.368
87.5	2.407	4.930	12.398	6.975	0.000	0.000	3.379	2.132	2.088	3.277
90.0	0.000	0.000	0.392	0.000	0.000	0.000	0.087	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P23-FLSH-LED35-MO-MWW-D1W.IES

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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	0.015	0.000	0.000	0.000	0.348	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	0.232	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	1197.715	1197.715	1197.715	1197.715	1197.715	1197.715	1197.715
2.5	1081.932	1134.379	1205.400	1265.531	1310.568	1341.903	1353.024
5.0	985.913	1076.321	1199.469	1318.601	1429.236	1509.711	1535.579
7.5	905.250	1015.928	1187.710	1371.381	1546.846	1646.287	1679.608
10.0	833.533	960.770	1171.296	1420.145	1636.572	1749.498	1793.491
12.5	771.995	901.842	1144.427	1461.165	1700.430	1831.176	1840.224
15.0	712.385	851.600	1120.415	1489.817	1767.420	1764.331	1717.511
17.5	652.370	800.777	1088.399	1513.742	1761.475	1621.521	1565.435
20.0	598.488	754.058	1056.354	1524.284	1678.970	1490.325	1424.495
22.5	546.230	711.182	1012.637	1539.422	1567.421	1364.247	1306.073
25.0	497.655	656.720	970.036	1537.392	1455.539	1253.859	1206.110
27.5	456.794	612.567	923.346	1531.186	1352.850	1159.841	1118.472
30.0	414.947	568.110	869.203	1507.391	1238.677	1068.317	1011.825
32.5	378.523	527.844	815.118	1468.604	1136.989	968.310	926.898
35.0	351.118	484.474	762.671	1418.869	1047.509	882.050	866.187
37.5	321.842	443.961	710.674	1349.689	969.760	821.556	803.880
40.0	298.584	404.594	656.357	1273.492	883.456	756.799	730.409
42.5	277.646	366.981	606.782	1187.840	788.641	686.256	679.325
45.0	257.651	334.530	551.885	1108.757	711.298	631.316	631.765
47.5	240.758	303.137	494.595	1014.493	641.944	583.814	587.337
50.0	225.606	272.151	443.106	929.552	575.143	537.530	534.630
52.5	208.844	244.354	398.649	830.778	516.099	489.636	493.595
55.0	191.908	220.792	348.435	746.243	462.449	444.512	445.759
57.5	178.611	194.851	307.342	653.747	412.888	404.072	390.645
60.0	165.025	173.087	265.452	567.023	366.792	360.586	327.468
62.5	149.858	150.133	225.591	488.230	324.293	312.519	257.085
65.0	132.182	132.153	190.081	412.931	282.141	257.491	200.680
67.5	115.174	111.839	155.600	341.809	243.818	204.958	154.701
70.0	100.746	93.293	125.730	278.371	207.582	161.907	119.451
72.5	83.839	75.632	96.440	222.082	174.232	121.815	92.960
75.0	70.934	56.739	72.602	170.709	141.172	89.610	69.223
77.5	54.636	44.138	52.316	124.280	108.098	65.192	52.316
80.0	39.948	30.276	34.322	83.709	78.358	44.660	36.221

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P23-FLSH-LED35-MO-MWW-D1W.IES

CANDELA TABULATION - (Cont.)

82.5	24.563	17.487	19.706	50.431	49.706	27.072	21.895
85.0	12.354	7.163	6.525	22.345	26.564	13.297	10.237
87.5	2.335	0.000	0.131	3.553	9.251	2.958	2.407
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	448.07	N.A.	18.20
0-30	889.50	N.A.	36.10
0-40	1356.16	N.A.	55.00
0-60	2125.39	N.A.	86.30
0-80	2444.51	N.A.	99.20
0-90	2463.87	N.A.	100.00
10-90	2347.5	N.A.	95.30
20-40	908.09	N.A.	36.90
20-50	1334.2	N.A.	54.20
40-70	988.12	N.A.	40.10
60-80	319.12	N.A.	13.00
70-80	100.23	N.A.	4.10
80-90	19.36	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	2463.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.37
10-20	331.70
20-30	441.43
30-40	466.66
40-50	426.10
50-60	343.13
60-70	218.89
70-80	100.23
80-90	19.36
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

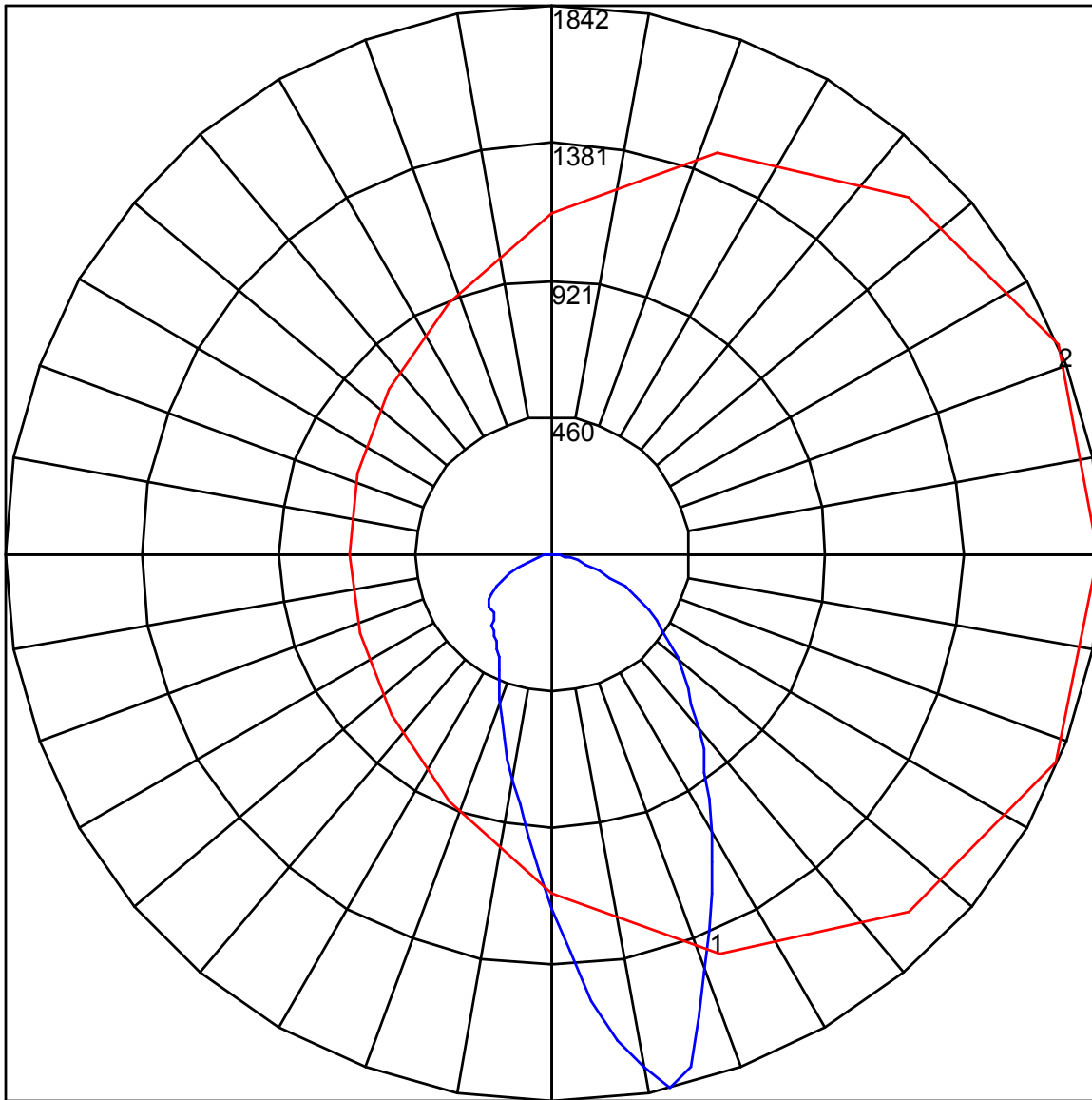
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PHOTOMETRIC FILENAME : P23-FLSH-LED35-MO-MWW-D1W.IES

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 = 1841.979 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.)