



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P23-PER-REG3-LED35-MO-04-MWG-D1G.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P23-PER-REG3-LED35-MO-04-MWG-D1G

[TESTLAB] Intertek

[ISSUE DATE]

[MANUFAC] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2262
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	0.60
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.23 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7188	4236	10444
55	7296	3308	6211
65	7476	2692	3065
75	8511	2192	1186
85	13471	1682	250

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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	2351.300	2351.300	2351.300	2351.300	2351.300	2351.300	2351.300	2351.300	2351.300	2351.300
2.5	2309.258	2290.358	2316.146	2357.978	2358.090	2311.092	2242.184	2208.556	2145.640	2208.556
5.0	2069.648	2060.492	2170.532	2316.160	2347.926	2225.370	2033.724	1900.164	1786.372	1900.164
7.5	1766.996	1778.588	1960.490	2230.732	2328.872	2104.830	1755.516	1529.318	1397.116	1529.318
10.0	1504.636	1528.128	1735.188	2116.422	2308.012	1954.806	1470.616	1201.634	1071.938	1201.634
12.5	1298.024	1325.954	1536.738	1980.034	2280.208	1777.776	1213.506	928.228	801.752	928.228
15.0	1136.702	1168.202	1363.838	1833.426	2244.928	1600.480	993.286	691.306	574.280	691.306
17.5	1002.134	1034.768	1218.336	1684.620	2205.000	1428.224	797.762	500.598	406.616	500.598
20.0	889.434	918.512	1093.932	1545.026	2157.316	1267.840	624.568	361.970	279.902	361.970
22.5	786.282	818.132	984.648	1418.242	2101.610	1121.246	484.666	256.830	192.304	256.830
25.0	701.176	731.318	888.482	1300.166	2038.050	984.956	370.426	180.880	137.886	180.880
27.5	632.184	658.770	799.848	1192.030	1965.740	860.244	278.572	133.056	99.008	133.056
30.0	577.500	598.808	718.844	1092.896	1881.194	742.784	206.822	97.678	66.122	97.678
32.5	534.632	550.088	650.818	1000.482	1787.366	633.346	156.968	67.774	41.804	67.774
35.0	500.682	509.404	591.570	913.066	1684.634	534.380	120.358	41.510	25.886	41.510
37.5	474.208	475.874	538.734	830.270	1572.858	446.768	89.096	26.250	16.982	26.250
40.0	452.326	450.688	493.346	753.970	1454.082	370.776	63.546	16.982	4.858	16.982
42.5	434.854	425.712	456.190	683.508	1329.328	302.456	42.882	7.896	2.506	7.896
45.0	416.458	407.302	422.030	616.070	1201.816	244.412	27.020	2.842	1.078	2.842
47.5	401.534	389.186	392.574	556.850	1073.492	194.250	17.248	1.960	0.000	1.960
50.0	386.162	372.148	366.100	501.018	946.960	153.006	8.526	0.000	0.000	0.000
52.5	367.416	354.606	341.362	448.224	824.432	121.394	4.144	0.000	0.000	0.000
55.0	350.798	337.526	318.878	403.032	709.716	93.702	0.000	0.000	0.000	0.000
57.5	332.416	320.712	297.934	359.856	602.728	66.962	0.000	0.000	0.000	0.000
60.0	313.712	304.360	278.978	320.292	505.932	45.136	0.000	0.000	0.000	0.000
62.5	294.112	286.776	259.658	284.774	414.988	25.802	0.000	0.000	0.000	0.000
65.0	274.932	270.270	242.872	254.464	337.176	11.438	0.000	0.000	0.000	0.000
67.5	257.124	252.756	226.660	225.162	268.296	5.782	0.000	0.000	0.000	0.000
70.0	240.646	236.334	208.544	199.332	209.356	4.984	0.000	0.000	0.000	0.000
72.5	223.566	220.444	192.416	174.636	161.742	4.060	0.000	0.000	0.000	0.000
75.0	207.186	203.014	178.220	151.452	121.408	3.122	0.000	0.000	0.000	0.000
77.5	191.548	187.628	161.672	130.354	87.598	3.066	0.000	0.000	0.000	0.000
80.0	178.962	170.982	144.886	111.510	61.180	2.212	0.000	0.000	0.000	0.000
82.5	163.884	156.226	131.530	93.772	40.600	1.008	0.000	0.000	0.000	0.000
85.0	150.556	142.618	117.628	78.064	22.960	0.000	0.000	0.000	0.000	0.000
87.5	138.894	129.528	104.426	64.218	9.800	0.000	0.000	0.000	0.000	0.000
90.0	127.512	118.118	93.016	53.648	2.254	0.000	0.000	0.000	0.000	0.000
92.5	118.860	110.278	85.750	45.052	0.826	0.000	0.000	0.000	0.000	0.000
95.0	110.670	102.270	77.882	36.792	0.756	0.000	0.000	0.000	0.000	0.000
97.5	101.108	94.346	68.852	30.492	0.336	0.000	0.000	0.000	0.000	0.000
100.0	94.598	87.948	61.236	26.754	0.000	0.000	0.000	0.000	0.000	0.000
102.5	88.662	80.220	55.636	20.804	0.000	0.000	0.000	0.000	0.000	0.000
105.0	80.262	73.220	50.190	16.380	0.000	0.000	0.000	0.000	0.000	0.000
107.5	74.186	64.932	42.644	13.790	0.000	0.000	0.000	0.000	0.000	0.000
110.0	67.396	58.282	37.492	9.072	0.000	0.000	0.000	0.000	0.000	0.000
112.5	60.074	51.870	32.200	7.658	0.000	0.000	0.000	0.000	0.000	0.000
115.0	53.802	46.130	27.510	3.108	0.000	0.000	0.000	0.000	0.000	0.000
117.5	48.748	40.684	22.316	1.218	0.000	0.000	0.000	0.000	0.000	0.000
120.0	42.126	33.740	16.954	0.826	0.000	0.000	0.000	0.000	0.000	0.000
122.5	35.588	28.434	9.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	30.002	23.842	4.928	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	24.850	19.054	1.134	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	20.678	12.488	0.952	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	15.078	9.380	0.658	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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135.0	12.558	3.360	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	6.916	1.498	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	4.690	0.504	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	0.000	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	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	0.000	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	2351.300	2351.300	2351.300	2351.300	2351.300	2351.300	2351.300
2.5	2242.184	2311.092	2358.090	2357.978	2316.146	2290.358	2309.258
5.0	2033.724	2225.370	2347.926	2316.160	2170.532	2060.492	2069.648
7.5	1755.516	2104.830	2328.872	2230.732	1960.490	1778.588	1766.996
10.0	1470.616	1954.806	2308.012	2116.422	1735.188	1528.128	1504.636
12.5	1213.506	1777.776	2280.208	1980.034	1536.738	1325.954	1298.024
15.0	993.286	1600.480	2244.928	1833.426	1363.838	1168.202	1136.702
17.5	797.762	1428.224	2205.000	1684.620	1218.336	1034.768	1002.134
20.0	624.568	1267.840	2157.316	1545.026	1093.932	918.512	889.434
22.5	484.666	1121.246	2101.610	1418.242	984.648	818.132	786.282
25.0	370.426	984.956	2038.050	1300.166	888.482	731.318	701.176
27.5	278.572	860.244	1965.740	1192.030	799.848	658.770	632.184
30.0	206.822	742.784	1881.194	1092.896	718.844	598.808	577.500
32.5	156.968	633.346	1787.366	1000.482	650.818	550.088	534.632
35.0	120.358	534.380	1684.634	913.066	591.570	509.404	500.682
37.5	89.096	446.768	1572.858	830.270	538.734	475.874	474.208
40.0	63.546	370.776	1454.082	753.970	493.346	450.688	452.326
42.5	42.882	302.456	1329.328	683.508	456.190	425.712	434.854
45.0	27.020	244.412	1201.816	616.070	422.030	407.302	416.458
47.5	17.248	194.250	1073.492	556.850	392.574	389.186	401.534
50.0	8.526	153.006	946.960	501.018	366.100	372.148	386.162
52.5	4.144	121.394	824.432	448.224	341.362	354.606	367.416
55.0	0.000	93.702	709.716	403.032	318.878	337.526	350.798
57.5	0.000	66.962	602.728	359.856	297.934	320.712	332.416
60.0	0.000	45.136	505.932	320.292	278.978	304.360	313.712
62.5	0.000	25.802	414.988	284.774	259.658	286.776	294.112
65.0	0.000	11.438	337.176	254.464	242.872	270.270	274.932
67.5	0.000	5.782	268.296	225.162	226.660	252.756	257.124
70.0	0.000	4.984	209.356	199.332	208.544	236.334	240.646
72.5	0.000	4.060	161.742	174.636	192.416	220.444	223.566
75.0	0.000	3.122	121.408	151.452	178.220	203.014	207.186
77.5	0.000	3.066	87.598	130.354	161.672	187.628	191.548
80.0	0.000	2.212	61.180	111.510	144.886	170.982	178.962

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CANDELA TABULATION - (Cont.)

82.5	0.000	1.008	40.600	93.772	131.530	156.226	163.884
85.0	0.000	0.000	22.960	78.064	117.628	142.618	150.556
87.5	0.000	0.000	9.800	64.218	104.426	129.528	138.894
90.0	0.000	0.000	2.254	53.648	93.016	118.118	127.512
92.5	0.000	0.000	0.826	45.052	85.750	110.278	118.860
95.0	0.000	0.000	0.756	36.792	77.882	102.270	110.670
97.5	0.000	0.000	0.336	30.492	68.852	94.346	101.108
100.0	0.000	0.000	0.000	26.754	61.236	87.948	94.598
102.5	0.000	0.000	0.000	20.804	55.636	80.220	88.662
105.0	0.000	0.000	0.000	16.380	50.190	73.220	80.262
107.5	0.000	0.000	0.000	13.790	42.644	64.932	74.186
110.0	0.000	0.000	0.000	9.072	37.492	58.282	67.396
112.5	0.000	0.000	0.000	7.658	32.200	51.870	60.074
115.0	0.000	0.000	0.000	3.108	27.510	46.130	53.802
117.5	0.000	0.000	0.000	1.218	22.316	40.684	48.748
120.0	0.000	0.000	0.000	0.826	16.954	33.740	42.126
122.5	0.000	0.000	0.000	0.000	9.044	28.434	35.588
125.0	0.000	0.000	0.000	0.000	4.928	23.842	30.002
127.5	0.000	0.000	0.000	0.000	1.134	19.054	24.850
130.0	0.000	0.000	0.000	0.000	0.952	12.488	20.678
132.5	0.000	0.000	0.000	0.000	0.658	9.380	15.078
135.0	0.000	0.000	0.000	0.000	0.000	3.360	12.558
137.5	0.000	0.000	0.000	0.000	0.000	1.498	6.916
140.0	0.000	0.000	0.000	0.000	0.000	0.504	4.690
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	565.03	N.A.	25.00
0-30	964.45	N.A.	42.60
0-40	1330.04	N.A.	58.80
0-60	1862.6	N.A.	82.30
0-80	2120.88	N.A.	93.80
0-90	2181.34	N.A.	96.40
10-90	1992.5	N.A.	88.10
20-40	765.00	N.A.	33.80
20-50	1068.47	N.A.	47.20
40-70	689.49	N.A.	30.50
60-80	258.28	N.A.	11.40
70-80	101.35	N.A.	4.50
80-90	60.46	N.A.	2.70
90-110	61.24	N.A.	2.70
90-120	74.31	N.A.	3.30
90-130	79.40	N.A.	3.50
90-150	80.56	N.A.	3.60
90-180	80.56	N.A.	3.60
110-180	19.32	N.A.	0.90
0-180	2261.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	188.84
10-20	376.19
20-30	399.41
30-40	365.59
40-50	303.47
50-60	229.09
60-70	156.93
70-80	101.35
80-90	60.46
90-100	37.39
100-110	23.85
110-120	13.07
120-130	5.09
130-140	1.13
140-150	0.03
150-160	0.00
160-170	0.00
170-180	0.00

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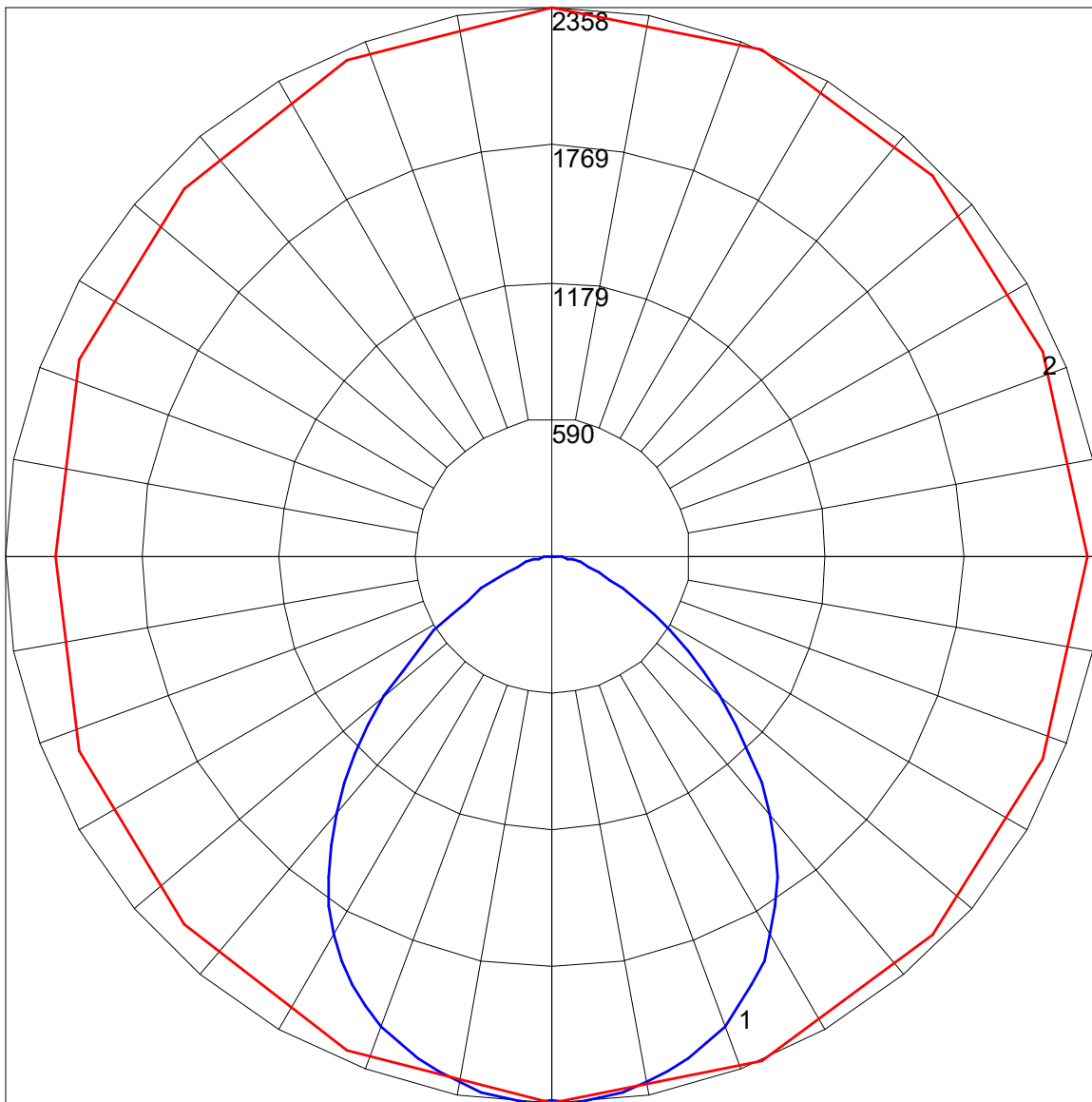
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	109	105	101	98	106	102	99	96	97	95	92	93	91	89	89	87	85	83
2	101	94	88	83	98	92	86	82	88	83	79	84	80	77	81	78	75	73
3	94	85	78	72	91	83	76	71	79	74	69	76	72	68	73	70	66	64
4	87	77	69	63	85	75	68	63	72	66	62	70	65	60	67	63	59	57
5	81	70	62	57	79	69	62	56	66	60	55	64	59	54	62	57	54	52
6	76	65	57	51	74	63	56	51	61	55	50	59	54	49	58	53	49	47
7	71	60	52	47	70	59	51	46	57	51	46	55	50	45	54	49	45	43
8	67	55	48	43	66	55	48	43	53	47	42	52	46	42	50	45	41	40
9	64	52	44	40	62	51	44	39	50	43	39	48	43	39	47	42	38	37
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	39	36	34

POLAR GRAPH



Maximum Candela = 2358.09 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)