



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P23-PER-REG3-LED35-SO-SAL-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P23-PER-REG3-LED35-SO-SAL-D1

[TESTLAB] Intertek

[ISSUE DATE]

[MANUFAC] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2851
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	33.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.00
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.21 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	29356	30839	29225
55	28418	29053	25266
65	29900	28914	21106
75	36583	32260	16139
85	77426	59454	8055

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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	1550.06	1550.06	1550.06	1550.06	1550.06	1550.06	1550.06	1550.06	1550.06	1550.06
2.5	1571.14	1569.44	1557.20	1557.88	1552.95	1538.50	1525.24	1528.13	1523.88	1528.13
5.0	1577.77	1574.37	1560.94	1557.20	1543.60	1521.84	1496.68	1478.32	1461.32	1478.32
7.5	1571.82	1567.74	1554.99	1549.38	1528.13	1497.53	1438.20	1393.49	1363.57	1393.49
10.0	1553.97	1550.06	1540.03	1534.25	1506.54	1461.32	1361.53	1284.18	1239.98	1284.18
12.5	1525.24	1522.69	1516.57	1512.49	1479.51	1411.00	1270.07	1153.79	1095.82	1153.79
15.0	1488.01	1485.46	1485.46	1484.78	1446.87	1353.03	1164.67	1012.69	942.99	1012.69
17.5	1442.45	1440.58	1446.87	1451.63	1409.64	1287.75	1051.62	869.21	789.48	869.21
20.0	1390.09	1389.58	1402.50	1414.06	1367.65	1215.84	934.49	728.45	642.43	728.45
22.5	1331.27	1333.99	1353.71	1371.39	1321.92	1137.64	817.19	596.36	507.79	596.36
25.0	1269.56	1275.51	1301.52	1323.62	1272.28	1056.72	701.76	473.28	389.81	473.28
27.5	1206.49	1210.91	1246.10	1273.30	1218.90	973.59	591.09	364.48	289.17	364.48
30.0	1141.55	1148.69	1186.77	1219.58	1163.14	888.76	489.26	273.87	205.87	273.87
32.5	1077.97	1087.66	1128.63	1164.33	1105.68	803.59	396.78	197.37	138.89	197.37
35.0	1019.32	1027.31	1070.32	1107.89	1045.84	718.76	314.33	134.98	87.89	134.98
37.5	961.69	968.49	1012.01	1049.75	985.15	636.65	241.57	86.87	50.15	86.87
40.0	904.91	912.39	954.89	991.10	923.78	557.43	179.01	50.66	20.74	50.66
42.5	852.38	859.18	899.13	933.30	862.07	481.44	126.48	21.93	0.00	21.93
45.0	804.27	808.01	844.90	875.50	800.70	409.19	83.64	0.00	0.00	0.00
47.5	757.18	759.39	792.20	817.70	739.84	341.53	49.64	0.00	0.00	0.00
50.0	712.13	713.49	741.54	761.26	679.49	278.80	22.44	0.00	0.00	0.00
52.5	670.82	670.31	692.75	706.52	619.65	220.66	0.00	0.00	0.00	0.00
55.0	631.55	629.00	645.66	653.14	561.51	168.30	0.00	0.00	0.00	0.00
57.5	593.30	589.39	600.78	600.95	505.24	122.06	0.00	0.00	0.00	0.00
60.0	556.92	551.82	557.09	550.63	450.33	82.11	0.00	0.00	0.00	0.00
62.5	522.58	515.95	514.59	502.01	396.78	48.11	0.00	0.00	0.00	0.00
65.0	489.60	480.76	473.45	454.24	345.61	21.42	0.00	0.00	0.00	0.00
67.5	456.96	446.76	434.01	407.32	296.48	0.00	0.00	0.00	0.00	0.00
70.0	425.68	414.29	395.59	362.44	249.05	0.00	0.00	0.00	0.00	0.00
72.5	395.93	383.01	358.70	319.09	204.00	0.00	0.00	0.00	0.00	0.00
75.0	366.86	352.41	323.51	277.10	161.84	0.00	0.00	0.00	0.00	0.00
77.5	338.64	323.34	290.02	236.98	122.74	0.00	0.00	0.00	0.00	0.00
80.0	311.78	295.29	258.06	199.75	86.87	0.00	0.00	0.00	0.00	0.00
82.5	286.11	268.94	228.14	164.90	54.74	0.00	0.00	0.00	0.00	0.00
85.0	261.46	243.78	200.77	133.28	27.20	0.00	0.00	0.00	0.00	0.00
87.5	237.83	220.66	175.44	105.23	0.00	0.00	0.00	0.00	0.00	0.00
90.0	218.79	202.30	155.72	83.98	0.00	0.00	0.00	0.00	0.00	0.00
92.5	206.04	189.04	141.95	69.36	0.00	0.00	0.00	0.00	0.00	0.00
95.0	191.93	174.93	128.01	57.12	0.00	0.00	0.00	0.00	0.00	0.00
97.5	177.31	160.31	114.41	46.24	0.00	0.00	0.00	0.00	0.00	0.00
100.0	162.86	146.03	101.32	37.06	0.00	0.00	0.00	0.00	0.00	0.00
102.5	148.92	132.26	88.91	28.73	0.00	0.00	0.00	0.00	0.00	0.00
105.0	135.15	119.00	77.52	21.42	0.00	0.00	0.00	0.00	0.00	0.00
107.5	121.72	106.25	66.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	109.14	94.01	56.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	96.90	82.45	47.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	85.17	71.40	38.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	73.95	61.03	30.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	63.41	51.00	22.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	53.21	41.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	43.52	32.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	34.51	24.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	26.01	16.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	18.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1550.06	1550.06	1550.06	1550.06	1550.06	1550.06	1550.06
2.5	1525.24	1538.50	1552.95	1557.88	1557.20	1569.44	1571.14
5.0	1496.68	1521.84	1543.60	1557.20	1560.94	1574.37	1577.77
7.5	1438.20	1497.53	1528.13	1549.38	1554.99	1567.74	1571.82
10.0	1361.53	1461.32	1506.54	1534.25	1540.03	1550.06	1553.97
12.5	1270.07	1411.00	1479.51	1512.49	1516.57	1522.69	1525.24
15.0	1164.67	1353.03	1446.87	1484.78	1485.46	1485.46	1488.01
17.5	1051.62	1287.75	1409.64	1451.63	1446.87	1440.58	1442.45
20.0	934.49	1215.84	1367.65	1414.06	1402.50	1389.58	1390.09
22.5	817.19	1137.64	1321.92	1371.39	1353.71	1333.99	1331.27
25.0	701.76	1056.72	1272.28	1323.62	1301.52	1275.51	1269.56
27.5	591.09	973.59	1218.90	1273.30	1246.10	1210.91	1206.49
30.0	489.26	888.76	1163.14	1219.58	1186.77	1148.69	1141.55
32.5	396.78	803.59	1105.68	1164.33	1128.63	1087.66	1077.97
35.0	314.33	718.76	1045.84	1107.89	1070.32	1027.31	1019.32
37.5	241.57	636.65	985.15	1049.75	1012.01	968.49	961.69
40.0	179.01	557.43	923.78	991.10	954.89	912.39	904.91
42.5	126.48	481.44	862.07	933.30	899.13	859.18	852.38
45.0	83.64	409.19	800.70	875.50	844.90	808.01	804.27
47.5	49.64	341.53	739.84	817.70	792.20	759.39	757.18
50.0	22.44	278.80	679.49	761.26	741.54	713.49	712.13
52.5	0.00	220.66	619.65	706.52	692.75	670.31	670.82
55.0	0.00	168.30	561.51	653.14	645.66	629.00	631.55
57.5	0.00	122.06	505.24	600.95	600.78	589.39	593.30
60.0	0.00	82.11	450.33	550.63	557.09	551.82	556.92
62.5	0.00	48.11	396.78	502.01	514.59	515.95	522.58
65.0	0.00	21.42	345.61	454.24	473.45	480.76	489.60
67.5	0.00	0.00	296.48	407.32	434.01	446.76	456.96
70.0	0.00	0.00	249.05	362.44	395.59	414.29	425.68
72.5	0.00	0.00	204.00	319.09	358.70	383.01	395.93
75.0	0.00	0.00	161.84	277.10	323.51	352.41	366.86
77.5	0.00	0.00	122.74	236.98	290.02	323.34	338.64
80.0	0.00	0.00	86.87	199.75	258.06	295.29	311.78

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82.5	0.00	0.00	54.74	164.90	228.14	268.94	286.11
85.0	0.00	0.00	27.20	133.28	200.77	243.78	261.46
87.5	0.00	0.00	0.00	105.23	175.44	220.66	237.83
90.0	0.00	0.00	0.00	83.98	155.72	202.30	218.79
92.5	0.00	0.00	0.00	69.36	141.95	189.04	206.04
95.0	0.00	0.00	0.00	57.12	128.01	174.93	191.93
97.5	0.00	0.00	0.00	46.24	114.41	160.31	177.31
100.0	0.00	0.00	0.00	37.06	101.32	146.03	162.86
102.5	0.00	0.00	0.00	28.73	88.91	132.26	148.92
105.0	0.00	0.00	0.00	21.42	77.52	119.00	135.15
107.5	0.00	0.00	0.00	0.00	66.64	106.25	121.72
110.0	0.00	0.00	0.00	0.00	56.44	94.01	109.14
112.5	0.00	0.00	0.00	0.00	47.09	82.45	96.90
115.0	0.00	0.00	0.00	0.00	38.25	71.40	85.17
117.5	0.00	0.00	0.00	0.00	30.26	61.03	73.95
120.0	0.00	0.00	0.00	0.00	22.27	51.00	63.41
122.5	0.00	0.00	0.00	0.00	0.00	41.31	53.21
125.0	0.00	0.00	0.00	0.00	0.00	32.81	43.52
127.5	0.00	0.00	0.00	0.00	0.00	24.48	34.51
130.0	0.00	0.00	0.00	0.00	0.00	16.66	26.01
132.5	0.00	0.00	0.00	0.00	0.00	0.00	18.02
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	515.79	N.A.	18.10
0-30	988.54	N.A.	34.70
0-40	1456.41	N.A.	51.10
0-60	2199.77	N.A.	77.20
0-80	2623.33	N.A.	92.00
0-90	2725.18	N.A.	95.60
10-90	2581.5	N.A.	90.50
20-40	940.62	N.A.	33.00
20-50	1350.23	N.A.	47.40
40-70	994.71	N.A.	34.90
60-80	423.56	N.A.	14.90
70-80	172.21	N.A.	6.00
80-90	101.85	N.A.	3.60
90-110	99.75	N.A.	3.50
90-120	118.86	N.A.	4.20
90-130	125.42	N.A.	4.40
90-150	126.03	N.A.	4.40
90-180	126.03	N.A.	4.40
110-180	26.28	N.A.	0.90
0-180	2851.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	143.69
10-20	372.10
20-30	472.75
30-40	467.87
40-50	409.61
50-60	333.76
60-70	251.35
70-80	172.21
80-90	101.85
90-100	62.34
100-110	37.41
110-120	19.11
120-130	6.56
130-140	0.61
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

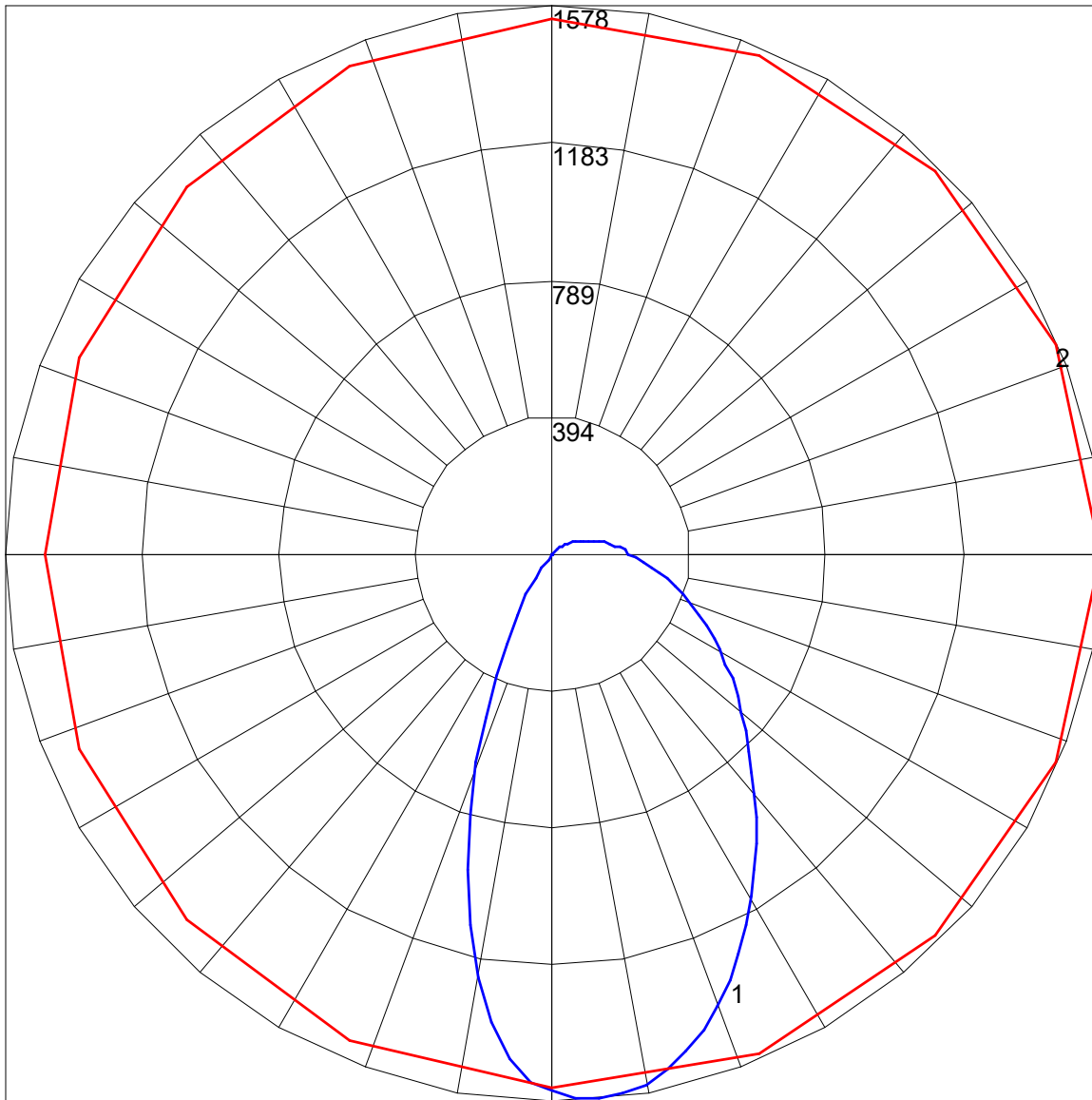
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	108	103	99	95	105	100	97	93	95	92	89	91	88	86	86	84	83	80
2	99	91	84	79	96	89	83	78	84	79	75	81	76	73	77	74	71	68
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	59
4	84	73	64	58	81	71	63	57	68	61	56	65	60	55	63	58	54	52
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46
6	72	60	51	45	70	59	51	45	56	50	44	54	48	44	53	47	43	41
7	68	55	47	41	66	54	46	41	52	45	40	50	44	39	49	43	39	37
8	63	51	43	37	62	50	42	37	48	41	36	46	40	36	45	40	35	34
9	59	47	39	34	58	46	39	34	45	38	33	43	37	33	42	36	32	31
10	56	44	36	31	55	43	36	31	42	35	31	40	34	30	39	34	30	28

POLAR GRAPH



Maximum Candela = 1577.77 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)