



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P83-REG3-LED4-HO-04-BLWH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]31775
 [TESTLAB]LIGHTING SCIENCES, INC.
 [ISSUE DATE] 5/24/2013
 [MANUFACTURER]PRUDENTIAL LIGHTING - 4' LED LUMINAIRE
 [LUMEN CATEGORY]P83-REG3-LED4-HO-04-BLWH
 [LUMINAIRE]WITH WHITE INTERIOR AND 48 X 1 CELL LOUVER

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2269
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.48
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.25 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	6790	13701	8818
55	6896	7014	6735
65	9374	7942	4797
75	14355	10815	3827
85	30933	22086	1690

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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	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7
2.5	1341.2	1340.4	1343.4	1331.2	1336.6	1317.6	1323.2	1318.4	1317.8	1318.4
5.0	1348.1	1343.1	1338.9	1320.9	1311.7	1287.6	1294.3	1299.2	1296.2	1299.2
7.5	1346.3	1340.5	1322.2	1299.5	1280.2	1256.1	1262.3	1271.4	1277.9	1271.4
10.0	1342.1	1329.7	1306.7	1273.6	1253.0	1212.5	1222.5	1238.3	1247.3	1238.3
12.5	1342.0	1319.9	1279.8	1238.7	1210.4	1175.0	1179.3	1202.2	1137.5	1202.2
15.0	1333.7	1307.8	1254.9	1209.6	1185.1	1142.6	1134.0	298.4	207.8	298.4
17.5	1331.2	1294.2	1224.7	1187.3	1145.2	1093.3	1065.9	205.3	193.0	205.3
20.0	1326.1	1277.8	1197.1	1145.2	1103.2	1047.8	219.8	185.0	176.1	185.0
22.5	1317.5	1263.2	1185.1	1108.5	1058.3	994.0	206.0	168.3	160.4	168.3
25.0	1319.0	1249.8	1154.3	1068.8	1015.8	938.2	185.7	153.8	139.7	153.8
27.5	1374.5	1247.1	1124.5	1033.6	954.1	876.0	168.6	126.2	91.9	126.2
30.0	1361.1	1279.6	1096.3	982.7	908.3	813.7	152.5	81.4	64.1	81.4
32.5	1327.9	1242.7	1059.7	937.7	857.5	415.8	134.5	61.4	49.9	61.4
35.0	1296.6	1196.5	1073.4	893.5	797.6	203.5	104.4	47.4	33.5	47.4
37.5	1269.2	1164.6	1056.3	847.3	743.5	187.9	70.2	27.1	9.2	27.1
40.0	1229.0	1132.6	998.5	797.0	696.8	169.2	54.9	10.0	6.5	10.0
42.5	983.7	1093.7	948.7	755.2	638.2	150.3	42.2	7.4	4.1	7.4
45.0	446.5	858.7	900.9	707.9	579.8	132.1	24.9	5.5	2.5	5.5
47.5	368.9	410.3	854.8	661.9	525.2	113.1	11.2	4.0	0.9	4.0
50.0	368.5	367.1	806.2	616.0	473.2	93.3	8.8	2.4	0.0	2.4
52.5	365.2	365.5	657.0	589.2	414.5	70.3	6.9	1.0	0.0	1.0
55.0	367.8	364.6	374.1	533.4	359.2	49.4	5.2	0.6	0.0	0.6
57.5	369.0	362.9	335.7	480.4	306.2	37.8	3.3	0.4	0.0	0.4
60.0	369.0	360.1	328.9	426.3	253.8	25.9	2.0	0.2	0.0	0.2
62.5	369.7	357.5	321.0	381.0	213.3	11.7	1.5	0.0	0.0	0.0
65.0	368.4	352.1	312.1	336.9	188.5	7.7	1.1	0.0	0.0	0.0
67.5	375.6	347.4	301.0	285.2	163.0	6.0	0.8	0.0	0.0	0.0
70.0	370.5	344.8	287.9	240.8	139.2	4.4	0.4	0.0	0.0	0.0
72.5	361.8	334.3	275.1	216.4	114.9	3.4	0.1	0.0	0.0	0.0
75.0	345.5	319.1	260.3	194.4	92.1	2.3	0.0	0.0	0.0	0.0
77.5	329.3	301.4	241.5	170.2	70.2	1.5	0.0	0.0	0.0	0.0
80.0	309.5	281.5	220.1	146.3	49.1	0.6	0.0	0.0	0.0	0.0
82.5	282.6	258.2	198.9	124.5	29.2	0.0	0.0	0.0	0.0	0.0
85.0	250.7	231.9	179.0	104.3	13.7	0.0	0.0	0.0	0.0	0.0
87.5	224.3	207.1	160.1	85.8	3.6	0.0	0.0	0.0	0.0	0.0
90.0	206.7	190.9	143.1	70.1	0.4	0.0	0.0	0.0	0.0	0.0
92.5	200.0	184.0	136.4	61.8	0.0	0.0	0.0	0.0	0.0	0.0
95.0	194.7	178.4	129.0	51.3	0.0	0.0	0.0	0.0	0.0	0.0
97.5	185.9	168.9	116.5	39.9	0.0	0.0	0.0	0.0	0.0	0.0
100.0	172.7	153.6	101.5	30.9	0.0	0.0	0.0	0.0	0.0	0.0
102.5	155.8	137.7	88.1	23.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	139.4	122.0	75.7	15.3	0.0	0.0	0.0	0.0	0.0	0.0
107.5	123.7	107.9	64.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
110.0	108.8	94.0	54.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	95.7	82.0	43.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	83.4	70.9	34.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	71.8	59.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	59.0	48.0	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
122.5	47.4	36.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	35.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7
2.5	1323.2	1317.6	1336.6	1331.2	1343.4	1340.4	1341.2
5.0	1294.3	1287.6	1311.7	1320.9	1338.9	1343.1	1348.1
7.5	1262.3	1256.1	1280.2	1299.5	1322.2	1340.5	1346.3
10.0	1222.5	1212.5	1253.0	1273.6	1306.7	1329.7	1342.1
12.5	1179.3	1175.0	1210.4	1238.7	1279.8	1319.9	1342.0
15.0	1134.0	1142.6	1185.1	1209.6	1254.9	1307.8	1333.7
17.5	1065.9	1093.3	1145.2	1187.3	1224.7	1294.2	1331.2
20.0	219.8	1047.8	1103.2	1145.2	1197.1	1277.8	1326.1
22.5	206.0	994.0	1058.3	1108.5	1185.1	1263.2	1317.5
25.0	185.7	938.2	1015.8	1068.8	1154.3	1249.8	1319.0
27.5	168.6	876.0	954.1	1033.6	1124.5	1247.1	1374.5
30.0	152.5	813.7	908.3	982.7	1096.3	1279.6	1361.1
32.5	134.5	415.8	857.5	937.7	1059.7	1242.7	1327.9
35.0	104.4	203.5	797.6	893.5	1073.4	1196.5	1296.6
37.5	70.2	187.9	743.5	847.3	1056.3	1164.6	1269.2
40.0	54.9	169.2	696.8	797.0	998.5	1132.6	1229.0
42.5	42.2	150.3	638.2	755.2	948.7	1093.7	983.7
45.0	24.9	132.1	579.8	707.9	900.9	858.7	446.5
47.5	11.2	113.1	525.2	661.9	854.8	410.3	368.9
50.0	8.8	93.3	473.2	616.0	806.2	367.1	368.5
52.5	6.9	70.3	414.5	589.2	657.0	365.5	365.2
55.0	5.2	49.4	359.2	533.4	374.1	364.6	367.8
57.5	3.3	37.8	306.2	480.4	335.7	362.9	369.0
60.0	2.0	25.9	253.8	426.3	328.9	360.1	369.0
62.5	1.5	11.7	213.3	381.0	321.0	357.5	369.7
65.0	1.1	7.7	188.5	336.9	312.1	352.1	368.4
67.5	0.8	6.0	163.0	285.2	301.0	347.4	375.6
70.0	0.4	4.4	139.2	240.8	287.9	344.8	370.5
72.5	0.1	3.4	114.9	216.4	275.1	334.3	361.8
75.0	0.0	2.3	92.1	194.4	260.3	319.1	345.5
77.5	0.0	1.5	70.2	170.2	241.5	301.4	329.3
80.0	0.0	0.6	49.1	146.3	220.1	281.5	309.5

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CANDELA TABULATION - (Cont.)

82.5	0.0	0.0	29.2	124.5	198.9	258.2	282.6
85.0	0.0	0.0	13.7	104.3	179.0	231.9	250.7
87.5	0.0	0.0	3.6	85.8	160.1	207.1	224.3
90.0	0.0	0.0	0.4	70.1	143.1	190.9	206.7
92.5	0.0	0.0	0.0	61.8	136.4	184.0	200.0
95.0	0.0	0.0	0.0	51.3	129.0	178.4	194.7
97.5	0.0	0.0	0.0	39.9	116.5	168.9	185.9
100.0	0.0	0.0	0.0	30.9	101.5	153.6	172.7
102.5	0.0	0.0	0.0	23.0	88.1	137.7	155.8
105.0	0.0	0.0	0.0	15.3	75.7	122.0	139.4
107.5	0.0	0.0	0.0	1.6	64.3	107.9	123.7
110.0	0.0	0.0	0.0	0.0	54.1	94.0	108.8
112.5	0.0	0.0	0.0	0.0	43.3	82.0	95.7
115.0	0.0	0.0	0.0	0.0	34.5	70.9	83.4
117.5	0.0	0.0	0.0	0.0	16.5	59.0	71.8
120.0	0.0	0.0	0.0	0.1	1.2	48.0	59.0
122.5	0.0	0.0	0.0	0.0	0.0	36.6	47.4
125.0	0.0	0.0	0.0	0.0	0.0	4.2	35.2
127.5	0.0	0.0	0.0	0.0	0.0	0.0	1.2
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	424.78	N.A.	18.70
0-30	798.72	N.A.	35.20
0-40	1196.33	N.A.	52.70
0-60	1749.73	N.A.	77.10
0-80	2057.99	N.A.	90.70
0-90	2148.46	N.A.	94.70
10-90	2024.5	N.A.	89.20
20-40	771.54	N.A.	34.00
20-50	1103.6	N.A.	48.60
40-70	724.86	N.A.	32.00
60-80	308.26	N.A.	13.60
70-80	136.80	N.A.	6.00
80-90	90.47	N.A.	4.00
90-110	98.80	N.A.	4.40
90-120	116.65	N.A.	5.10
90-130	120.18	N.A.	5.30
90-150	120.18	N.A.	5.30
90-180	120.18	N.A.	5.30
110-180	21.37	N.A.	0.90
0-180	2268.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	123.96
10-20	300.82
20-30	373.94
30-40	397.60
40-50	332.06
50-60	221.35
60-70	171.46
70-80	136.80
80-90	90.47
90-100	61.28
100-110	37.52
110-120	17.85
120-130	3.52
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

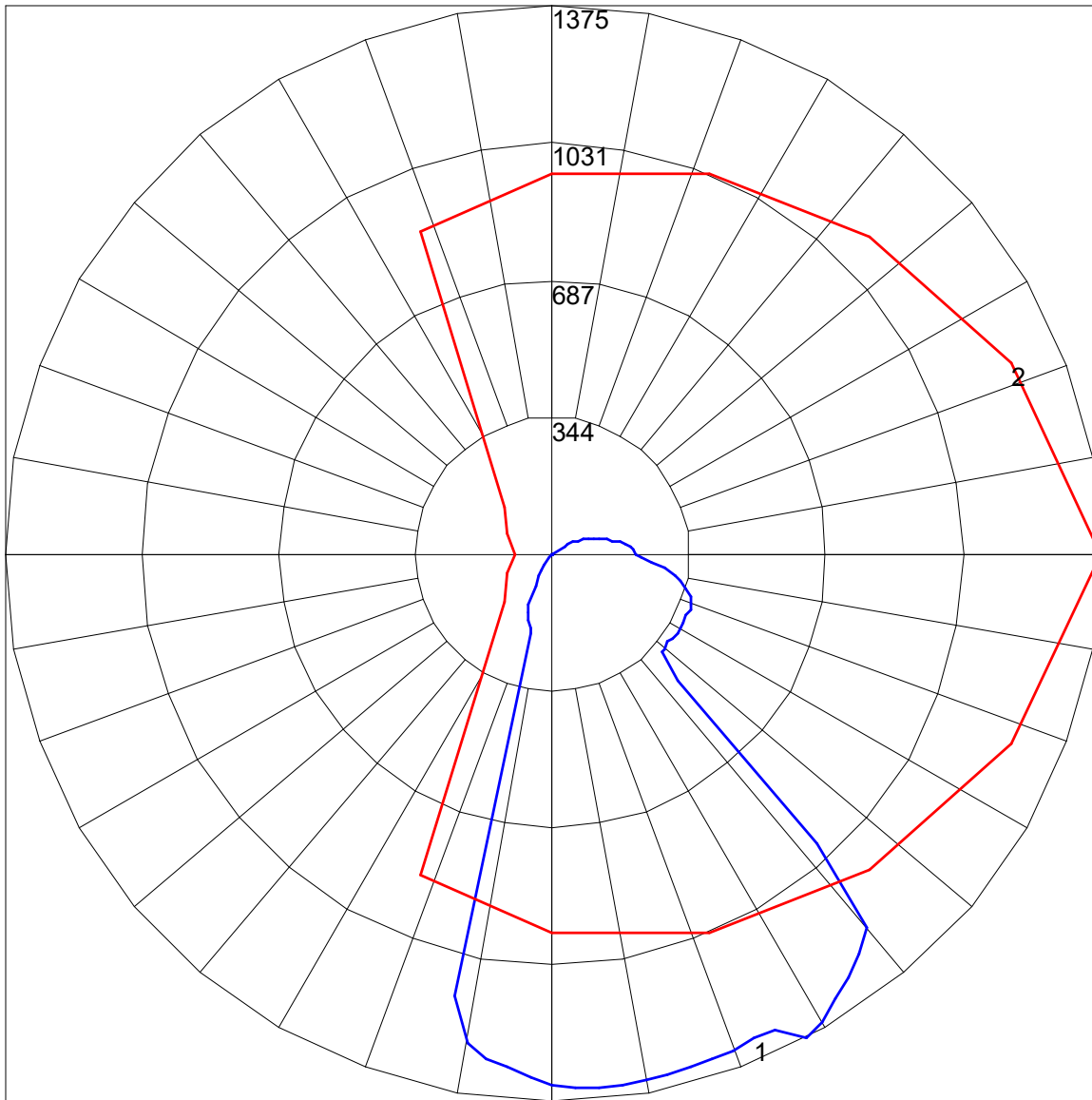
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	108	103	99	95	104	100	96	93	95	92	89	90	88	85	86	84	82	79
2	99	91	85	79	96	89	83	78	84	79	75	80	76	73	77	73	70	68
3	91	81	74	68	88	79	72	67	76	70	65	72	67	63	69	65	61	59
4	84	73	65	59	82	72	64	58	68	62	57	66	60	56	63	58	54	52
5	78	66	58	52	76	65	57	51	62	56	50	60	54	49	58	53	48	46
6	73	61	52	46	71	59	52	46	57	50	45	55	49	44	53	48	44	42
7	68	56	48	42	66	55	47	42	53	46	41	51	45	40	49	44	40	38
8	64	51	43	38	62	50	43	38	49	42	37	47	41	37	46	40	36	34
9	60	48	40	35	58	47	40	35	45	39	34	44	38	34	43	37	33	31
10	57	44	37	32	55	44	37	32	42	36	31	41	35	31	40	35	31	29

POLAR GRAPH



Maximum Candela = 1374.5 Located At Horizontal Angle = 0, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)