



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]31775
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC]PRUDENTIAL LIGHTING - 4' LED LUMINAIRE
 [LUMCAT]P83-REG3-LED35-MO-04-BLWH
 [LUMINAIRE]WITH WHITE INTERIOR AND 48 X 1 CELL LOUVER
 [LAMP]
 [OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1588
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	24
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	4753	9591	6172
55	4827	4910	4714
65	6562	5559	3358
75	10049	7571	2679
85	21653	15460	1183

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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	934.99	934.99	934.99	934.99	934.99	934.99	934.99	934.99	934.99	934.99
2.5	938.84	938.28	940.38	931.84	935.62	922.32	926.24	922.88	922.46	922.88
5.0	943.67	940.17	937.23	924.63	918.19	901.32	906.01	909.44	907.34	909.44
7.5	942.41	938.35	925.54	909.65	896.14	879.27	883.61	889.98	894.53	889.98
10.0	939.47	930.79	914.69	891.52	877.10	848.75	855.75	866.81	873.11	866.81
12.5	939.40	923.93	895.86	867.09	847.28	822.50	825.51	841.54	796.25	841.54
15.0	933.59	915.46	878.43	846.72	829.57	799.82	793.80	208.88	145.46	208.88
17.5	931.84	905.94	857.29	831.11	801.64	765.31	746.13	143.71	135.10	143.71
20.0	928.27	894.46	837.97	801.64	772.24	733.46	153.86	129.50	123.27	129.50
22.5	922.25	884.24	829.57	775.95	740.81	695.80	144.20	117.81	112.28	117.81
25.0	923.30	874.86	808.01	748.16	711.06	656.74	129.99	107.66	97.79	107.66
27.5	962.15	872.97	787.15	723.52	667.87	613.20	118.02	88.34	64.33	88.34
30.0	952.77	895.72	767.41	687.89	635.81	569.59	106.75	56.98	44.87	56.98
32.5	929.53	869.89	741.79	656.39	600.25	291.06	94.15	42.98	34.93	42.98
35.0	907.62	837.55	751.38	625.45	558.32	142.45	73.08	33.18	23.45	33.18
37.5	888.44	815.22	739.41	593.11	520.45	131.53	49.14	18.97	6.44	18.97
40.0	860.30	792.82	698.95	557.90	487.76	118.44	38.43	7.00	4.55	7.00
42.5	688.59	765.59	664.09	528.64	446.74	105.21	29.54	5.18	2.87	5.18
45.0	312.55	601.09	630.63	495.53	405.86	92.47	17.43	3.85	1.75	3.85
47.5	258.23	287.21	598.36	463.33	367.64	79.17	7.84	2.80	0.63	2.80
50.0	257.95	256.97	564.34	431.20	331.24	65.31	6.16	1.68	0.00	1.68
52.5	255.64	255.85	459.90	412.44	290.15	49.21	4.83	0.70	0.00	0.70
55.0	257.46	255.22	261.87	373.38	251.44	34.58	3.64	0.42	0.00	0.42
57.5	258.30	254.03	234.99	336.28	214.34	26.46	2.31	0.28	0.00	0.28
60.0	258.30	252.07	230.23	298.41	177.66	18.13	1.40	0.14	0.00	0.14
62.5	258.79	250.25	224.70	266.70	149.31	8.19	1.05	0.00	0.00	0.00
65.0	257.88	246.47	218.47	235.83	131.95	5.39	0.77	0.00	0.00	0.00
67.5	262.92	243.18	210.70	199.64	114.10	4.20	0.56	0.00	0.00	0.00
70.0	259.35	241.36	201.53	168.56	97.44	3.08	0.28	0.00	0.00	0.00
72.5	253.26	234.01	192.57	151.48	80.43	2.38	0.07	0.00	0.00	0.00
75.0	241.85	223.37	182.21	136.08	64.47	1.61	0.00	0.00	0.00	0.00
77.5	230.51	210.98	169.05	119.14	49.14	1.05	0.00	0.00	0.00	0.00
80.0	216.65	197.05	154.07	102.41	34.37	0.42	0.00	0.00	0.00	0.00
82.5	197.82	180.74	139.23	87.15	20.44	0.00	0.00	0.00	0.00	0.00
85.0	175.49	162.33	125.30	73.01	9.59	0.00	0.00	0.00	0.00	0.00
87.5	157.01	144.97	112.07	60.06	2.52	0.00	0.00	0.00	0.00	0.00
90.0	144.69	133.63	100.17	49.07	0.28	0.00	0.00	0.00	0.00	0.00
92.5	140.00	128.80	95.48	43.26	0.00	0.00	0.00	0.00	0.00	0.00
95.0	136.29	124.88	90.30	35.91	0.00	0.00	0.00	0.00	0.00	0.00
97.5	130.13	118.23	81.55	27.93	0.00	0.00	0.00	0.00	0.00	0.00
100.0	120.89	107.52	71.05	21.63	0.00	0.00	0.00	0.00	0.00	0.00
102.5	109.06	96.39	61.67	16.10	0.00	0.00	0.00	0.00	0.00	0.00
105.0	97.58	85.40	52.99	10.71	0.00	0.00	0.00	0.00	0.00	0.00
107.5	86.59	75.53	45.01	1.12	0.00	0.00	0.00	0.00	0.00	0.00
110.0	76.16	65.80	37.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	66.99	57.40	30.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	58.38	49.63	24.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	50.26	41.30	11.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	41.30	33.60	0.84	0.07	0.00	0.00	0.00	0.00	0.00	0.00
122.5	33.18	25.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	24.64	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

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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	934.99	934.99	934.99	934.99	934.99	934.99	934.99
2.5	926.24	922.32	935.62	931.84	940.38	938.28	938.84
5.0	906.01	901.32	918.19	924.63	937.23	940.17	943.67
7.5	883.61	879.27	896.14	909.65	925.54	938.35	942.41
10.0	855.75	848.75	877.10	891.52	914.69	930.79	939.47
12.5	825.51	822.50	847.28	867.09	895.86	923.93	939.40
15.0	793.80	799.82	829.57	846.72	878.43	915.46	933.59
17.5	746.13	765.31	801.64	831.11	857.29	905.94	931.84
20.0	153.86	733.46	772.24	801.64	837.97	894.46	928.27
22.5	144.20	695.80	740.81	775.95	829.57	884.24	922.25
25.0	129.99	656.74	711.06	748.16	808.01	874.86	923.30
27.5	118.02	613.20	667.87	723.52	787.15	872.97	962.15
30.0	106.75	569.59	635.81	687.89	767.41	895.72	952.77
32.5	94.15	291.06	600.25	656.39	741.79	869.89	929.53
35.0	73.08	142.45	558.32	625.45	751.38	837.55	907.62
37.5	49.14	131.53	520.45	593.11	739.41	815.22	888.44
40.0	38.43	118.44	487.76	557.90	698.95	792.82	860.30
42.5	29.54	105.21	446.74	528.64	664.09	765.59	688.59
45.0	17.43	92.47	405.86	495.53	630.63	601.09	312.55
47.5	7.84	79.17	367.64	463.33	598.36	287.21	258.23
50.0	6.16	65.31	331.24	431.20	564.34	256.97	257.95
52.5	4.83	49.21	290.15	412.44	459.90	255.85	255.64
55.0	3.64	34.58	251.44	373.38	261.87	255.22	257.46
57.5	2.31	26.46	214.34	336.28	234.99	254.03	258.30
60.0	1.40	18.13	177.66	298.41	230.23	252.07	258.30
62.5	1.05	8.19	149.31	266.70	224.70	250.25	258.79
65.0	0.77	5.39	131.95	235.83	218.47	246.47	257.88
67.5	0.56	4.20	114.10	199.64	210.70	243.18	262.92
70.0	0.28	3.08	97.44	168.56	201.53	241.36	259.35
72.5	0.07	2.38	80.43	151.48	192.57	234.01	253.26
75.0	0.00	1.61	64.47	136.08	182.21	223.37	241.85
77.5	0.00	1.05	49.14	119.14	169.05	210.98	230.51
80.0	0.00	0.42	34.37	102.41	154.07	197.05	216.65

IES INDOOR REPORT
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82.5	0.00	0.00	20.44	87.15	139.23	180.74	197.82
85.0	0.00	0.00	9.59	73.01	125.30	162.33	175.49
87.5	0.00	0.00	2.52	60.06	112.07	144.97	157.01
90.0	0.00	0.00	0.28	49.07	100.17	133.63	144.69
92.5	0.00	0.00	0.00	43.26	95.48	128.80	140.00
95.0	0.00	0.00	0.00	35.91	90.30	124.88	136.29
97.5	0.00	0.00	0.00	27.93	81.55	118.23	130.13
100.0	0.00	0.00	0.00	21.63	71.05	107.52	120.89
102.5	0.00	0.00	0.00	16.10	61.67	96.39	109.06
105.0	0.00	0.00	0.00	10.71	52.99	85.40	97.58
107.5	0.00	0.00	0.00	1.12	45.01	75.53	86.59
110.0	0.00	0.00	0.00	0.00	37.87	65.80	76.16
112.5	0.00	0.00	0.00	0.00	30.31	57.40	66.99
115.0	0.00	0.00	0.00	0.00	24.15	49.63	58.38
117.5	0.00	0.00	0.00	0.00	11.55	41.30	50.26
120.0	0.00	0.00	0.00	0.07	0.84	33.60	41.30
122.5	0.00	0.00	0.00	0.00	0.00	25.62	33.18
125.0	0.00	0.00	0.00	0.00	0.00	2.94	24.64
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.84
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	297.35	N.A.	18.70
0-30	559.11	N.A.	35.20
0-40	837.43	N.A.	52.70
0-60	1224.81	N.A.	77.10
0-80	1440.59	N.A.	90.70
0-90	1503.92	N.A.	94.70
10-90	1417.15	N.A.	89.20
20-40	540.08	N.A.	34.00
20-50	772.52	N.A.	48.60
40-70	507.40	N.A.	32.00
60-80	215.78	N.A.	13.60
70-80	95.76	N.A.	6.00
80-90	63.33	N.A.	4.00
90-110	69.16	N.A.	4.40
90-120	81.66	N.A.	5.10
90-130	84.12	N.A.	5.30
90-150	84.12	N.A.	5.30
90-180	84.12	N.A.	5.30
110-180	14.96	N.A.	0.90
0-180	1588.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	86.77
10-20	210.58
20-30	261.76
30-40	278.32
40-50	232.44
50-60	154.94
60-70	120.02
70-80	95.76
80-90	63.33
90-100	42.89
100-110	26.27
110-120	12.50
120-130	2.47
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

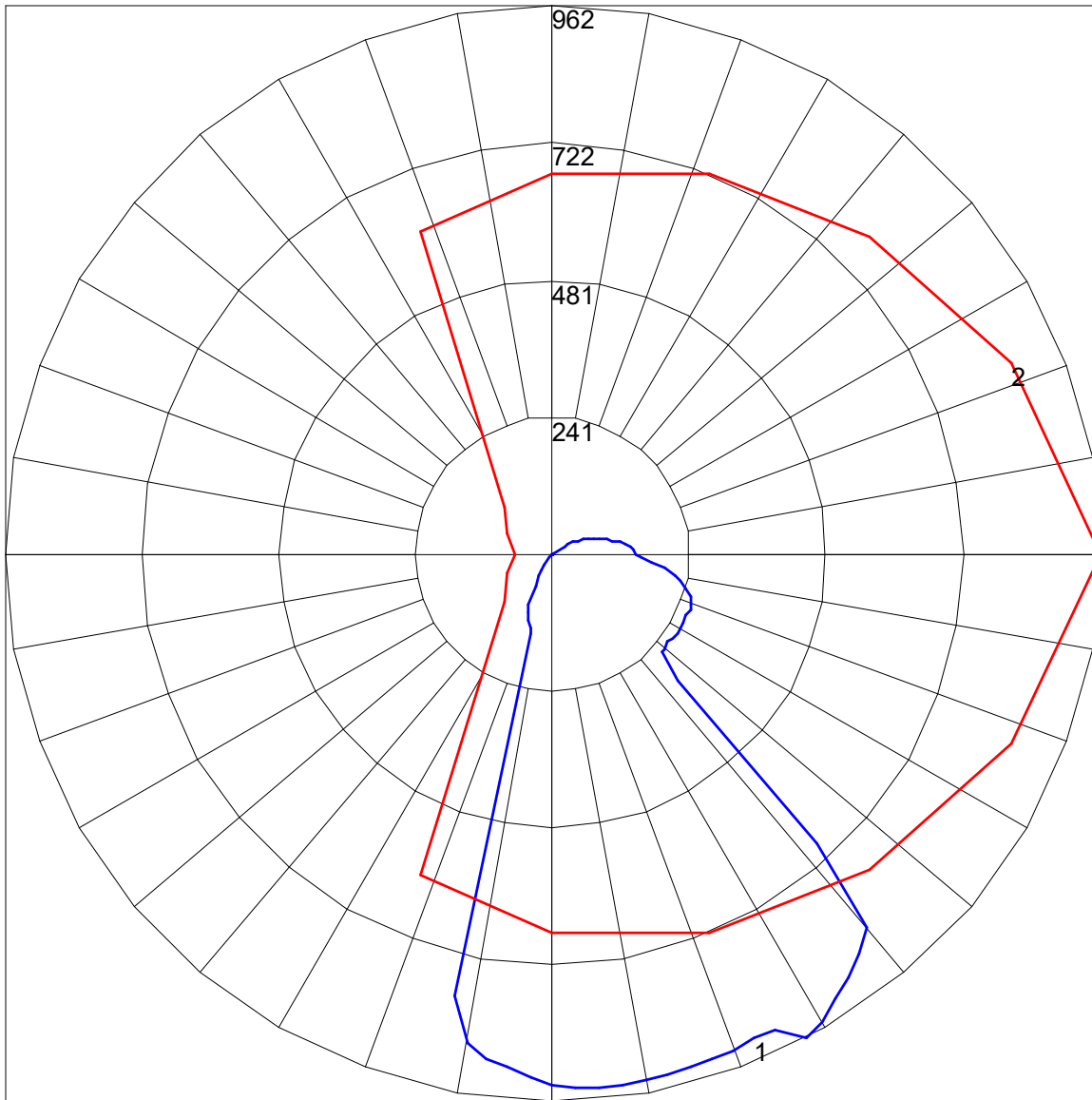
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PHOTOMETRIC FILENAME : P83-REG3-LED4-MO-04-BLWH.IES

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	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	80	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	32
10	57	44	37	32	55	44	37	32	42	36	31	41	35	31	40	35	31	29

POLAR GRAPH



Maximum Candela = 962.15 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.)