



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]31775
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC]PRUDENTIAL LIGHTING - 4' LED LUMINAIRE
 [LUMCAT]
 [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	998
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	16
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	2988	6028	3880
55	3034	3086	2963
65	4125	3494	2110
75	6316	4759	1684
85	13611	9718	744

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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	587.708	587.708	587.708	587.708	587.708	587.708	587.708	587.708	587.708	587.708
2.5	590.128	589.776	591.096	585.728	588.104	579.744	582.208	580.096	579.832	580.096
5.0	593.164	590.964	589.116	581.196	577.148	566.544	569.492	571.648	570.328	571.648
7.5	592.372	589.820	581.768	571.780	563.288	552.684	555.412	559.416	562.276	559.416
10.0	590.524	585.068	574.948	560.384	551.320	533.500	537.900	544.852	548.812	544.852
12.5	590.480	580.756	563.112	545.028	532.576	517.000	518.892	528.968	500.500	528.968
15.0	586.828	575.432	552.156	532.224	521.444	502.744	498.960	131.296	91.432	131.296
17.5	585.728	569.448	538.868	522.412	503.888	481.052	468.996	90.332	84.920	90.332
20.0	583.484	562.232	526.724	503.888	485.408	461.032	96.712	81.400	77.484	81.400
22.5	579.700	555.808	521.444	487.740	465.652	437.360	90.640	74.052	70.576	74.052
25.0	580.360	549.912	507.892	470.272	446.952	412.808	81.708	67.672	61.468	67.672
27.5	604.780	548.724	494.780	454.784	419.804	385.440	74.184	55.528	40.436	55.528
30.0	598.884	563.024	482.372	432.388	399.652	358.028	67.100	35.816	28.204	35.816
32.5	584.276	546.788	466.268	412.588	377.300	182.952	59.180	27.016	21.956	27.016
35.0	570.504	526.460	472.296	393.140	350.944	89.540	45.936	20.856	14.740	20.856
37.5	558.448	512.424	464.772	372.812	327.140	82.676	30.888	11.924	4.048	11.924
40.0	540.760	498.344	439.340	350.680	306.592	74.448	24.156	4.400	2.860	4.400
42.5	432.828	481.228	417.428	332.288	280.808	66.132	18.568	3.256	1.804	3.256
45.0	196.460	377.828	396.396	311.476	255.112	58.124	10.956	2.420	1.100	2.420
47.5	162.316	180.532	376.112	291.236	231.088	49.764	4.928	1.760	0.396	1.760
50.0	162.140	161.524	354.728	271.040	208.208	41.052	3.872	1.056	0.000	1.056
52.5	160.688	160.820	289.080	259.248	182.380	30.932	3.036	0.440	0.000	0.440
55.0	161.832	160.424	164.604	234.696	158.048	21.736	2.288	0.264	0.000	0.264
57.5	162.360	159.676	147.708	211.376	134.728	16.632	1.452	0.176	0.000	0.176
60.0	162.360	158.444	144.716	187.572	111.672	11.396	0.880	0.088	0.000	0.088
62.5	162.668	157.300	141.240	167.640	93.852	5.148	0.660	0.000	0.000	0.000
65.0	162.096	154.924	137.324	148.236	82.940	3.388	0.484	0.000	0.000	0.000
67.5	165.264	152.856	132.440	125.488	71.720	2.640	0.352	0.000	0.000	0.000
70.0	163.020	151.712	126.676	105.952	61.248	1.936	0.176	0.000	0.000	0.000
72.5	159.192	147.092	121.044	95.216	50.556	1.496	0.044	0.000	0.000	0.000
75.0	152.020	140.404	114.532	85.536	40.524	1.012	0.000	0.000	0.000	0.000
77.5	144.892	132.616	106.260	74.888	30.888	0.660	0.000	0.000	0.000	0.000
80.0	136.180	123.860	96.844	64.372	21.604	0.264	0.000	0.000	0.000	0.000
82.5	124.344	113.608	87.516	54.780	12.848	0.000	0.000	0.000	0.000	0.000
85.0	110.308	102.036	78.760	45.892	6.028	0.000	0.000	0.000	0.000	0.000
87.5	98.692	91.124	70.444	37.752	1.584	0.000	0.000	0.000	0.000	0.000
90.0	90.948	83.996	62.964	30.844	0.176	0.000	0.000	0.000	0.000	0.000
92.5	88.000	80.960	60.016	27.192	0.000	0.000	0.000	0.000	0.000	0.000
95.0	85.668	78.496	56.760	22.572	0.000	0.000	0.000	0.000	0.000	0.000
97.5	81.796	74.316	51.260	17.556	0.000	0.000	0.000	0.000	0.000	0.000
100.0	75.988	67.584	44.660	13.596	0.000	0.000	0.000	0.000	0.000	0.000
102.5	68.552	60.588	38.764	10.120	0.000	0.000	0.000	0.000	0.000	0.000
105.0	61.336	53.680	33.308	6.732	0.000	0.000	0.000	0.000	0.000	0.000
107.5	54.428	47.476	28.292	0.704	0.000	0.000	0.000	0.000	0.000	0.000
110.0	47.872	41.360	23.804	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	42.108	36.080	19.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	36.696	31.196	15.180	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	31.592	25.960	7.260	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	25.960	21.120	0.528	0.044	0.000	0.000	0.000	0.000	0.000	0.000
122.5	20.856	16.104	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	15.488	1.848	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.528	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

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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	0.000	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	587.708	587.708	587.708	587.708	587.708	587.708	587.708
2.5	582.208	579.744	588.104	585.728	591.096	589.776	590.128
5.0	569.492	566.544	577.148	581.196	589.116	590.964	593.164
7.5	555.412	552.684	563.288	571.780	581.768	589.820	592.372
10.0	537.900	533.500	551.320	560.384	574.948	585.068	590.524
12.5	518.892	517.000	532.576	545.028	563.112	580.756	590.480
15.0	498.960	502.744	521.444	532.224	552.156	575.432	586.828
17.5	468.996	481.052	503.888	522.412	538.868	569.448	585.728
20.0	96.712	461.032	485.408	503.888	526.724	562.232	583.484
22.5	90.640	437.360	465.652	487.740	521.444	555.808	579.700
25.0	81.708	412.808	446.952	470.272	507.892	549.912	580.360
27.5	74.184	385.440	419.804	454.784	494.780	548.724	604.780
30.0	67.100	358.028	399.652	432.388	482.372	563.024	598.884
32.5	59.180	182.952	377.300	412.588	466.268	546.788	584.276
35.0	45.936	89.540	350.944	393.140	472.296	526.460	570.504
37.5	30.888	82.676	327.140	372.812	464.772	512.424	558.448
40.0	24.156	74.448	306.592	350.680	439.340	498.344	540.760
42.5	18.568	66.132	280.808	332.288	417.428	481.228	432.828
45.0	10.956	58.124	255.112	311.476	396.396	377.828	196.460
47.5	4.928	49.764	231.088	291.236	376.112	180.532	162.316
50.0	3.872	41.052	208.208	271.040	354.728	161.524	162.140
52.5	3.036	30.932	182.380	259.248	289.080	160.820	160.688
55.0	2.288	21.736	158.048	234.696	164.604	160.424	161.832
57.5	1.452	16.632	134.728	211.376	147.708	159.676	162.360
60.0	0.880	11.396	111.672	187.572	144.716	158.444	162.360
62.5	0.660	5.148	93.852	167.640	141.240	157.300	162.668
65.0	0.484	3.388	82.940	148.236	137.324	154.924	162.096
67.5	0.352	2.640	71.720	125.488	132.440	152.856	165.264
70.0	0.176	1.936	61.248	105.952	126.676	151.712	163.020
72.5	0.044	1.496	50.556	95.216	121.044	147.092	159.192
75.0	0.000	1.012	40.524	85.536	114.532	140.404	152.020
77.5	0.000	0.660	30.888	74.888	106.260	132.616	144.892
80.0	0.000	0.264	21.604	64.372	96.844	123.860	136.180

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CANDELA TABULATION - (Cont.)

82.5	0.000	0.000	12.848	54.780	87.516	113.608	124.344
85.0	0.000	0.000	6.028	45.892	78.760	102.036	110.308
87.5	0.000	0.000	1.584	37.752	70.444	91.124	98.692
90.0	0.000	0.000	0.176	30.844	62.964	83.996	90.948
92.5	0.000	0.000	0.000	27.192	60.016	80.960	88.000
95.0	0.000	0.000	0.000	22.572	56.760	78.496	85.668
97.5	0.000	0.000	0.000	17.556	51.260	74.316	81.796
100.0	0.000	0.000	0.000	13.596	44.660	67.584	75.988
102.5	0.000	0.000	0.000	10.120	38.764	60.588	68.552
105.0	0.000	0.000	0.000	6.732	33.308	53.680	61.336
107.5	0.000	0.000	0.000	0.704	28.292	47.476	54.428
110.0	0.000	0.000	0.000	0.000	23.804	41.360	47.872
112.5	0.000	0.000	0.000	0.000	19.052	36.080	42.108
115.0	0.000	0.000	0.000	0.000	15.180	31.196	36.696
117.5	0.000	0.000	0.000	0.000	7.260	25.960	31.592
120.0	0.000	0.000	0.000	0.044	0.528	21.120	25.960
122.5	0.000	0.000	0.000	0.000	0.000	16.104	20.856
125.0	0.000	0.000	0.000	0.000	0.000	1.848	15.488
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.528
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	186.90	N.A.	18.70
0-30	351.44	N.A.	35.20
0-40	526.38	N.A.	52.70
0-60	769.88	N.A.	77.10
0-80	905.51	N.A.	90.70
0-90	945.32	N.A.	94.70
10-90	890.78	N.A.	89.20
20-40	339.48	N.A.	34.00
20-50	485.58	N.A.	48.60
40-70	318.94	N.A.	32.00
60-80	135.63	N.A.	13.60
70-80	60.19	N.A.	6.00
80-90	39.81	N.A.	4.00
90-110	43.47	N.A.	4.40
90-120	51.33	N.A.	5.10
90-130	52.88	N.A.	5.30
90-150	52.88	N.A.	5.30
90-180	52.88	N.A.	5.30
110-180	9.40	N.A.	0.90
0-180	998.20	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.54
10-20	132.36
20-30	164.53
30-40	174.94
40-50	146.11
50-60	97.39
60-70	75.44
70-80	60.19
80-90	39.81
90-100	26.96
100-110	16.51
110-120	7.85
120-130	1.55
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

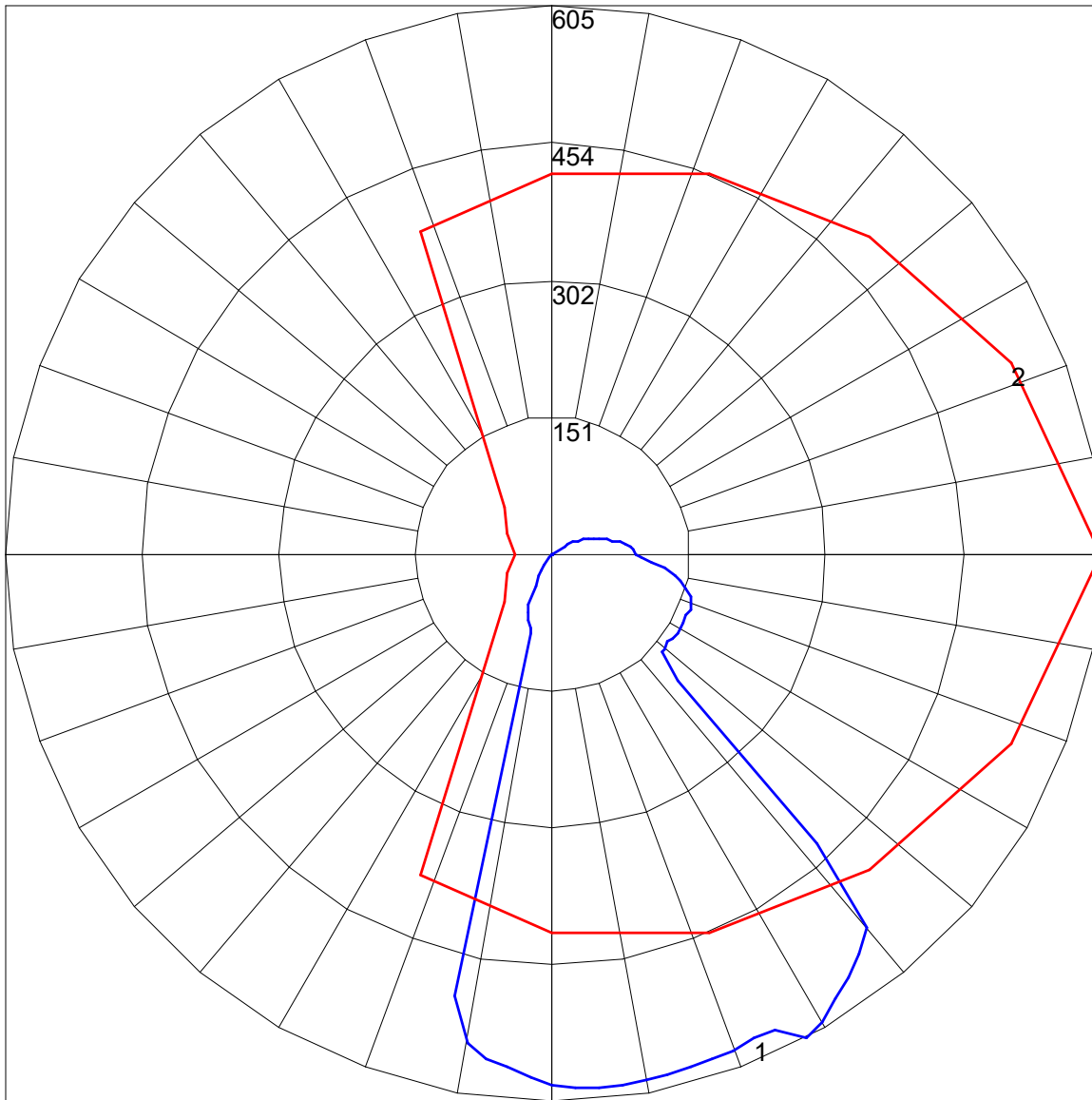
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	49	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 = 604.78 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.)