



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P83-REG3-LED4-SO-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-LED4-04-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	1928
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	33.2
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	5772	11646	7495
55	5861	5962	5724
65	7968	6750	4077
75	12202	9193	3253
85	26293	18773	1437

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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	1135.345	1135.345	1135.345	1135.345	1135.345	1135.345	1135.345	1135.345	1135.345	1135.345
2.5	1140.020	1139.340	1141.890	1131.520	1136.110	1119.960	1124.720	1120.640	1120.130	1120.640
5.0	1145.885	1141.635	1138.065	1122.765	1114.945	1094.460	1100.155	1104.320	1101.770	1104.320
7.5	1144.355	1139.425	1123.870	1104.575	1088.170	1067.685	1072.955	1080.690	1086.215	1080.690
10.0	1140.785	1130.245	1110.695	1082.560	1065.050	1030.625	1039.125	1052.555	1060.205	1052.555
12.5	1140.700	1121.915	1087.830	1052.895	1028.840	998.750	1002.405	1021.870	966.875	1021.870
15.0	1133.645	1111.630	1066.665	1028.160	1007.335	971.210	963.900	253.640	176.630	253.640
17.5	1131.520	1100.070	1040.995	1009.205	973.420	929.305	906.015	174.505	164.050	174.505
20.0	1127.185	1086.130	1017.535	973.420	937.720	890.630	186.830	157.250	149.685	157.250
22.5	1119.875	1073.720	1007.335	942.225	899.555	844.900	175.100	143.055	136.340	143.055
25.0	1121.150	1062.330	981.155	908.480	863.430	797.470	157.845	130.730	118.745	130.730
27.5	1168.325	1060.035	955.825	878.560	810.985	744.600	143.310	107.270	78.115	107.270
30.0	1156.935	1087.660	931.855	835.295	772.055	691.645	129.625	69.190	54.485	69.190
32.5	1128.715	1056.295	900.745	797.045	728.875	353.430	114.325	52.190	42.415	52.190
35.0	1102.110	1017.025	912.390	759.475	677.960	172.975	88.740	40.290	28.475	40.290
37.5	1078.820	989.910	897.855	720.205	631.975	159.715	59.670	23.035	7.820	23.035
40.0	1044.650	962.710	848.725	677.450	592.280	143.820	46.665	8.500	5.525	8.500
42.5	836.145	929.645	806.395	641.920	542.470	127.755	35.870	6.290	3.485	6.290
45.0	379.525	729.895	765.765	601.715	492.830	112.285	21.165	4.675	2.125	4.675
47.5	313.565	348.755	726.580	562.615	446.420	96.135	9.520	3.400	0.765	3.400
50.0	313.225	312.035	685.270	523.600	402.220	79.305	7.480	2.040	0.000	2.040
52.5	310.420	310.675	558.450	500.820	352.325	59.755	5.865	0.850	0.000	0.850
55.0	312.630	309.910	317.985	453.390	305.320	41.990	4.420	0.510	0.000	0.510
57.5	313.650	308.465	285.345	408.340	260.270	32.130	2.805	0.340	0.000	0.340
60.0	313.650	306.085	279.565	362.355	215.730	22.015	1.700	0.170	0.000	0.170
62.5	314.245	303.875	272.850	323.850	181.305	9.945	1.275	0.000	0.000	0.000
65.0	313.140	299.285	265.285	286.365	160.225	6.545	0.935	0.000	0.000	0.000
67.5	319.260	295.290	255.850	242.420	138.550	5.100	0.680	0.000	0.000	0.000
70.0	314.925	293.080	244.715	204.680	118.320	3.740	0.340	0.000	0.000	0.000
72.5	307.530	284.155	233.835	183.940	97.665	2.890	0.085	0.000	0.000	0.000
75.0	293.675	271.235	221.255	165.240	78.285	1.955	0.000	0.000	0.000	0.000
77.5	279.905	256.190	205.275	144.670	59.670	1.275	0.000	0.000	0.000	0.000
80.0	263.075	239.275	187.085	124.355	41.735	0.510	0.000	0.000	0.000	0.000
82.5	240.210	219.470	169.065	105.825	24.820	0.000	0.000	0.000	0.000	0.000
85.0	213.095	197.115	152.150	88.655	11.645	0.000	0.000	0.000	0.000	0.000
87.5	190.655	176.035	136.085	72.930	3.060	0.000	0.000	0.000	0.000	0.000
90.0	175.695	162.265	121.635	59.585	0.340	0.000	0.000	0.000	0.000	0.000
92.5	170.000	156.400	115.940	52.530	0.000	0.000	0.000	0.000	0.000	0.000
95.0	165.495	151.640	109.650	43.605	0.000	0.000	0.000	0.000	0.000	0.000
97.5	158.015	143.565	99.025	33.915	0.000	0.000	0.000	0.000	0.000	0.000
100.0	146.795	130.560	86.275	26.265	0.000	0.000	0.000	0.000	0.000	0.000
102.5	132.430	117.045	74.885	19.550	0.000	0.000	0.000	0.000	0.000	0.000
105.0	118.490	103.700	64.345	13.005	0.000	0.000	0.000	0.000	0.000	0.000
107.5	105.145	91.715	54.655	1.360	0.000	0.000	0.000	0.000	0.000	0.000
110.0	92.480	79.900	45.985	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	81.345	69.700	36.805	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	70.890	60.265	29.325	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	61.030	50.150	14.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	50.150	40.800	1.020	0.085	0.000	0.000	0.000	0.000	0.000	0.000
122.5	40.290	31.110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	29.920	3.570	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	1.020	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	1135.345	1135.345	1135.345	1135.345	1135.345	1135.345	1135.345
2.5	1124.720	1119.960	1136.110	1131.520	1141.890	1139.340	1140.020
5.0	1100.155	1094.460	1114.945	1122.765	1138.065	1141.635	1145.885
7.5	1072.955	1067.685	1088.170	1104.575	1123.870	1139.425	1144.355
10.0	1039.125	1030.625	1065.050	1082.560	1110.695	1130.245	1140.785
12.5	1002.405	998.750	1028.840	1052.895	1087.830	1121.915	1140.700
15.0	963.900	971.210	1007.335	1028.160	1066.665	1111.630	1133.645
17.5	906.015	929.305	973.420	1009.205	1040.995	1100.070	1131.520
20.0	186.830	890.630	937.720	973.420	1017.535	1086.130	1127.185
22.5	175.100	844.900	899.555	942.225	1007.335	1073.720	1119.875
25.0	157.845	797.470	863.430	908.480	981.155	1062.330	1121.150
27.5	143.310	744.600	810.985	878.560	955.825	1060.035	1168.325
30.0	129.625	691.645	772.055	835.295	931.855	1087.660	1156.935
32.5	114.325	353.430	728.875	797.045	900.745	1056.295	1128.715
35.0	88.740	172.975	677.960	759.475	912.390	1017.025	1102.110
37.5	59.670	159.715	631.975	720.205	897.855	989.910	1078.820
40.0	46.665	143.820	592.280	677.450	848.725	962.710	1044.650
42.5	35.870	127.755	542.470	641.920	806.395	929.645	836.145
45.0	21.165	112.285	492.830	601.715	765.765	729.895	379.525
47.5	9.520	96.135	446.420	562.615	726.580	348.755	313.565
50.0	7.480	79.305	402.220	523.600	685.270	312.035	313.225
52.5	5.865	59.755	352.325	500.820	558.450	310.675	310.420
55.0	4.420	41.990	305.320	453.390	317.985	309.910	312.630
57.5	2.805	32.130	260.270	408.340	285.345	308.465	313.650
60.0	1.700	22.015	215.730	362.355	279.565	306.085	313.650
62.5	1.275	9.945	181.305	323.850	272.850	303.875	314.245
65.0	0.935	6.545	160.225	286.365	265.285	299.285	313.140
67.5	0.680	5.100	138.550	242.420	255.850	295.290	319.260
70.0	0.340	3.740	118.320	204.680	244.715	293.080	314.925
72.5	0.085	2.890	97.665	183.940	233.835	284.155	307.530
75.0	0.000	1.955	78.285	165.240	221.255	271.235	293.675
77.5	0.000	1.275	59.670	144.670	205.275	256.190	279.905
80.0	0.000	0.510	41.735	124.355	187.085	239.275	263.075

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82.5	0.000	0.000	24.820	105.825	169.065	219.470	240.210
85.0	0.000	0.000	11.645	88.655	152.150	197.115	213.095
87.5	0.000	0.000	3.060	72.930	136.085	176.035	190.655
90.0	0.000	0.000	0.340	59.585	121.635	162.265	175.695
92.5	0.000	0.000	0.000	52.530	115.940	156.400	170.000
95.0	0.000	0.000	0.000	43.605	109.650	151.640	165.495
97.5	0.000	0.000	0.000	33.915	99.025	143.565	158.015
100.0	0.000	0.000	0.000	26.265	86.275	130.560	146.795
102.5	0.000	0.000	0.000	19.550	74.885	117.045	132.430
105.0	0.000	0.000	0.000	13.005	64.345	103.700	118.490
107.5	0.000	0.000	0.000	1.360	54.655	91.715	105.145
110.0	0.000	0.000	0.000	0.000	45.985	79.900	92.480
112.5	0.000	0.000	0.000	0.000	36.805	69.700	81.345
115.0	0.000	0.000	0.000	0.000	29.325	60.265	70.890
117.5	0.000	0.000	0.000	0.000	14.025	50.150	61.030
120.0	0.000	0.000	0.000	0.085	1.020	40.800	50.150
122.5	0.000	0.000	0.000	0.000	0.000	31.110	40.290
125.0	0.000	0.000	0.000	0.000	0.000	3.570	29.920
127.5	0.000	0.000	0.000	0.000	0.000	0.000	1.020
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	361.07	N.A.	18.70
0-30	678.92	N.A.	35.20
0-40	1016.88	N.A.	52.70
0-60	1487.27	N.A.	77.10
0-80	1749.29	N.A.	90.70
0-90	1826.19	N.A.	94.70
10-90	1720.83	N.A.	89.20
20-40	655.81	N.A.	34.00
20-50	938.06	N.A.	48.60
40-70	616.13	N.A.	32.00
60-80	262.02	N.A.	13.60
70-80	116.28	N.A.	6.00
80-90	76.90	N.A.	4.00
90-110	83.98	N.A.	4.40
90-120	99.15	N.A.	5.10
90-130	102.15	N.A.	5.30
90-150	102.15	N.A.	5.30
90-180	102.15	N.A.	5.30
110-180	18.17	N.A.	0.90
0-180	1928.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.37
10-20	255.70
20-30	317.85
30-40	337.96
40-50	282.25
50-60	188.15
60-70	145.74
70-80	116.28
80-90	76.90
90-100	52.09
100-110	31.90
110-120	15.17
120-130	3.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

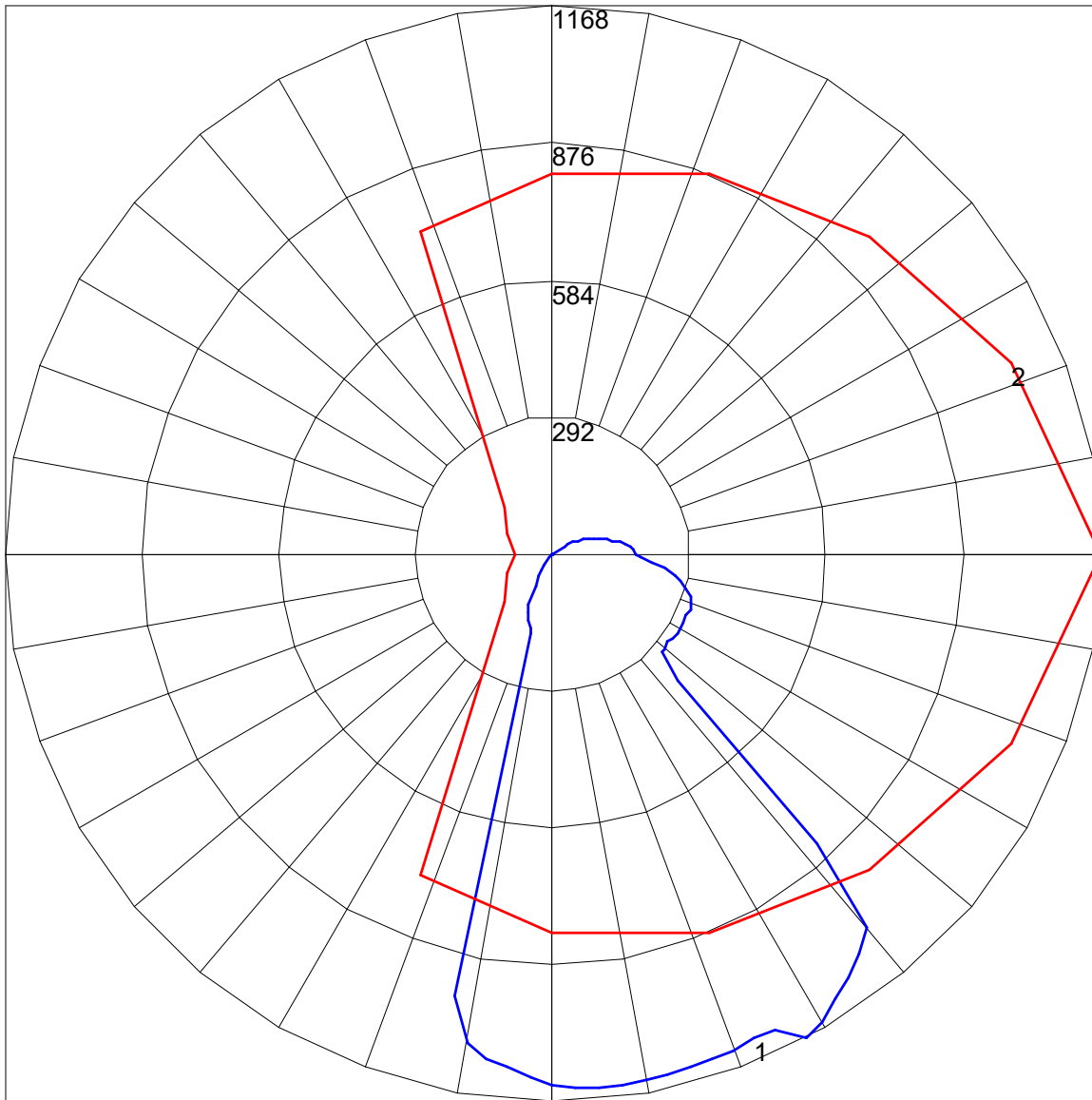
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1168.325 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.)