



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P83-FLSH-LED4-SO-04-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]31776
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC]PRUDENTIAL LIGHTING - 4' LED LUMINAIRE
 [LUMCAT]P83-FLSH-LED4-04-SAL
 [LUMINAIRE]WITH WHITE INTERIOR AND FROSTED PLASTIC FLAT LENS
 [LAMP]
 [OTHER]E

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2100
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	33.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.40 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	4296	4842	5231
55	3669	4109	4534
65	3184	3477	3855
75	2760	2893	3153
85	2499	2306	2375

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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	1037.5	1037.5	1037.5	1037.5	1037.5	1037.5	1037.5	1037.5	1037.5	1037.5
2.5	1052.8	1056.6	1055.2	1038.6	1033.6	1029.5	1029.8	1023.3	1020.2	1023.3
5.0	1056.3	1062.4	1052.5	1039.4	1028.4	1012.5	1006.7	1001.6	990.6	1001.6
7.5	1052.7	1053.2	1054.0	1031.9	1016.8	1000.3	981.5	966.4	954.0	966.4
10.0	1039.5	1041.0	1039.5	1025.7	1005.9	978.2	951.4	923.9	913.1	923.9
12.5	1019.0	1026.1	1029.4	1010.1	991.2	953.2	915.9	882.4	867.7	882.4
15.0	990.1	1000.2	1003.3	991.5	969.3	928.6	879.1	839.0	819.8	839.0
17.5	955.7	965.1	980.7	972.4	946.8	895.8	835.4	790.0	768.6	790.0
20.0	915.6	925.8	945.2	944.9	923.3	863.2	794.6	738.0	717.0	738.0
22.5	870.6	887.3	912.4	914.0	895.2	831.0	748.8	688.6	667.0	688.6
25.0	822.7	840.0	869.9	883.4	862.4	792.5	704.9	641.8	619.1	641.8
27.5	772.2	789.5	828.7	848.2	828.5	753.6	661.1	596.5	574.2	596.5
30.0	722.0	741.6	784.6	808.6	793.5	716.6	617.9	553.8	532.3	553.8
32.5	673.0	691.9	737.6	768.1	756.0	677.8	576.0	513.5	492.5	513.5
35.0	625.1	643.3	692.5	725.5	716.4	637.0	535.4	475.2	455.8	475.2
37.5	579.2	596.3	643.7	682.0	675.2	595.7	497.2	440.0	428.4	440.0
40.0	534.3	551.3	597.3	637.7	633.2	554.6	460.9	410.3	392.7	410.3
42.5	491.8	508.5	552.5	593.8	591.5	515.7	426.1	376.8	362.4	376.8
45.0	452.0	467.7	509.4	550.6	550.3	477.2	393.0	347.8	334.3	347.8
47.5	414.2	428.7	467.2	507.7	508.6	439.6	364.7	320.2	308.0	320.2
50.0	378.9	391.2	426.6	465.3	467.2	402.8	331.3	294.4	283.0	294.4
52.5	345.1	355.4	387.6	423.6	426.5	367.3	302.0	269.8	259.7	269.8
55.0	313.1	321.6	350.7	382.1	386.9	333.8	274.4	246.4	237.5	246.4
57.5	282.8	290.0	315.4	343.1	349.0	301.2	248.3	223.7	216.1	223.7
60.0	253.8	260.2	281.8	305.8	312.3	269.6	223.5	201.3	195.1	201.3
62.5	226.5	231.7	249.6	270.3	276.8	240.2	199.2	179.8	174.3	179.8
65.0	200.2	204.6	218.6	235.8	242.4	210.3	175.5	159.0	154.3	159.0
67.5	175.0	178.3	189.4	203.1	209.4	182.6	153.0	139.1	134.8	139.1
70.0	150.8	153.1	161.8	172.3	178.2	156.4	131.3	119.7	116.2	119.7
72.5	127.9	129.6	135.8	143.3	148.9	131.5	110.7	101.1	98.5	101.1
75.0	106.3	107.3	111.4	116.3	121.4	107.5	91.1	83.1	81.2	83.1
77.5	86.1	86.4	88.4	91.2	95.6	85.3	72.2	65.8	64.4	65.8
80.0	67.3	67.1	67.1	67.9	71.8	64.9	54.5	49.9	48.7	49.9
82.5	49.8	49.0	47.6	46.5	50.0	46.4	38.3	35.2	34.0	35.2
85.0	32.4	31.6	29.9	27.6	30.8	29.1	23.7	21.6	20.7	21.6
87.5	17.1	16.3	14.0	11.6	14.0	13.1	9.9	8.6	8.1	8.6
90.0	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	1037.5	1037.5	1037.5	1037.5	1037.5	1037.5	1037.5
2.5	1029.8	1029.5	1033.6	1038.6	1055.2	1056.6	1052.8
5.0	1006.7	1012.5	1028.4	1039.4	1052.5	1062.4	1056.3
7.5	981.5	1000.3	1016.8	1031.9	1054.0	1053.2	1052.7
10.0	951.4	978.2	1005.9	1025.7	1039.5	1041.0	1039.5
12.5	915.9	953.2	991.2	1010.1	1029.4	1026.1	1019.0
15.0	879.1	928.6	969.3	991.5	1003.3	1000.2	990.1
17.5	835.4	895.8	946.8	972.4	980.7	965.1	955.7
20.0	794.6	863.2	923.3	944.9	945.2	925.8	915.6
22.5	748.8	831.0	895.2	914.0	912.4	887.3	870.6
25.0	704.9	792.5	862.4	883.4	869.9	840.0	822.7
27.5	661.1	753.6	828.5	848.2	828.7	789.5	772.2
30.0	617.9	716.6	793.5	808.6	784.6	741.6	722.0

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32.5	576.0	677.8	756.0	768.1	737.6	691.9	673.0
35.0	535.4	637.0	716.4	725.5	692.5	643.3	625.1
37.5	497.2	595.7	675.2	682.0	643.7	596.3	579.2
40.0	460.9	554.6	633.2	637.7	597.3	551.3	534.3
42.5	426.1	515.7	591.5	593.8	552.5	508.5	491.8
45.0	393.0	477.2	550.3	550.6	509.4	467.7	452.0
47.5	364.7	439.6	508.6	507.7	467.2	428.7	414.2
50.0	331.3	402.8	467.2	465.3	426.6	391.2	378.9
52.5	302.0	367.3	426.5	423.6	387.6	355.4	345.1
55.0	274.4	333.8	386.9	382.1	350.7	321.6	313.1
57.5	248.3	301.2	349.0	343.1	315.4	290.0	282.8
60.0	223.5	269.6	312.3	305.8	281.8	260.2	253.8
62.5	199.2	240.2	276.8	270.3	249.6	231.7	226.5
65.0	175.5	210.3	242.4	235.8	218.6	204.6	200.2
67.5	153.0	182.6	209.4	203.1	189.4	178.3	175.0
70.0	131.3	156.4	178.2	172.3	161.8	153.1	150.8
72.5	110.7	131.5	148.9	143.3	135.8	129.6	127.9
75.0	91.1	107.5	121.4	116.3	111.4	107.3	106.3
77.5	72.2	85.3	95.6	91.2	88.4	86.4	86.1
80.0	54.5	64.9	71.8	67.9	67.1	67.1	67.3
82.5	38.3	46.4	50.0	46.5	47.6	49.0	49.8
85.0	23.7	29.1	30.8	27.6	29.9	31.6	32.4
87.5	9.9	13.1	14.0	11.6	14.0	16.3	17.1
90.0	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	360.65	N.A.	17.20
0-30	723.48	N.A.	34.40
0-40	1111.7	N.A.	52.90
0-60	1756.25	N.A.	83.60
0-80	2068.66	N.A.	98.50
0-90	2100.17	N.A.	100.00
10-90	2003.14	N.A.	95.40
20-40	751.05	N.A.	35.80
20-50	1107.37	N.A.	52.70
40-70	846.23	N.A.	40.30
60-80	312.41	N.A.	14.90
70-80	110.73	N.A.	5.30
80-90	31.50	N.A.	1.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2100.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	97.03
10-20	263.62
20-30	362.84
30-40	388.21
40-50	356.32
50-60	288.24
60-70	201.68
70-80	110.73
80-90	31.50
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

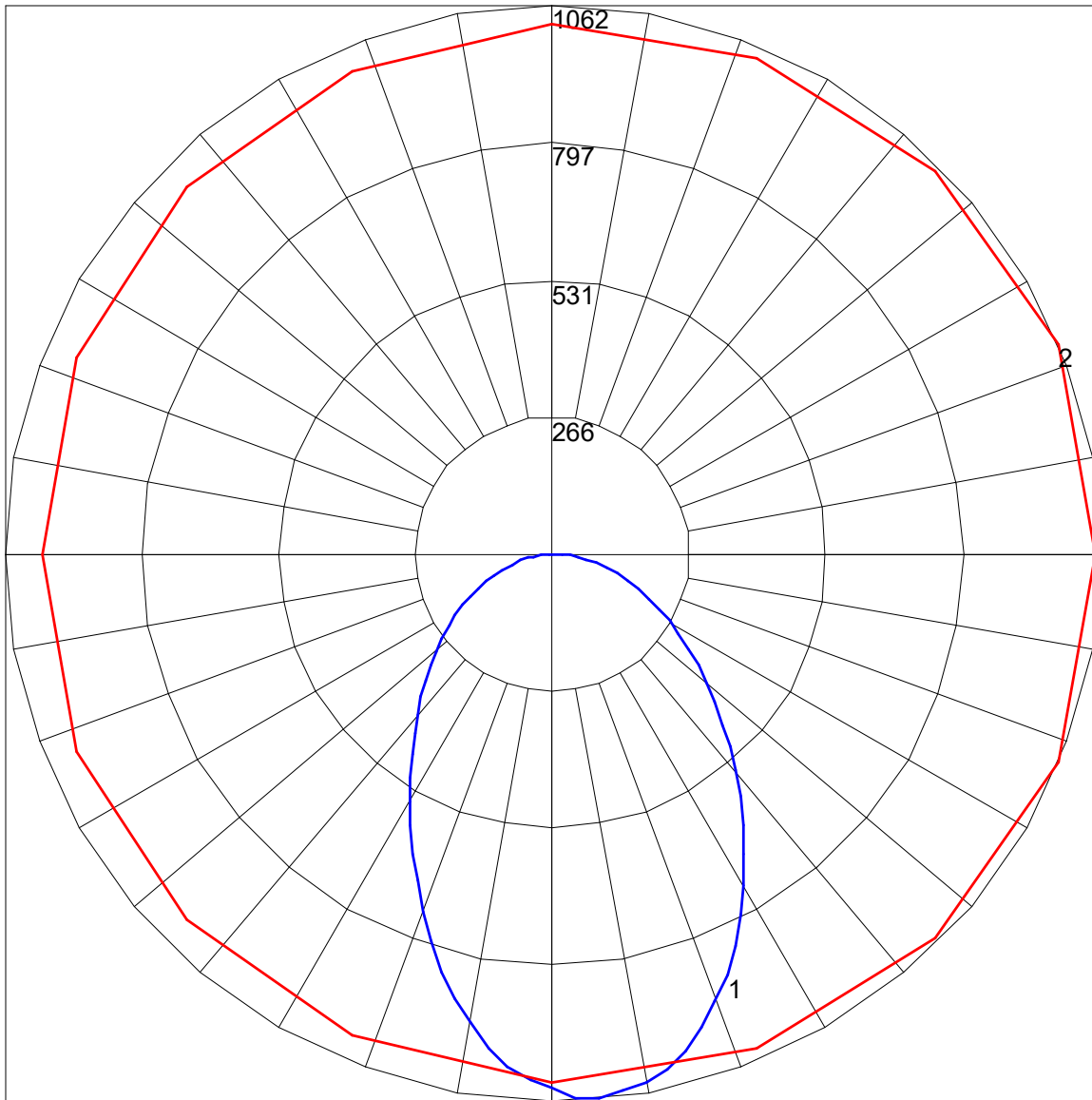
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	55	47	41	53	46	41	52	45	40	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

POLAR GRAPH



Maximum Candela = 1062.4 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)