



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]31776

[TESTLAB]

[ISSUE DATE]

[MANUFAC]PRUDENTIAL LIGHTING - 4' LED LUMINAIRE

[LUMCAT]

[LUMINAIRE]WITH WHITE INTERIOR AND FROSTED PLASTIC FLAT LENS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1092
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	16
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	2234	2518	2720
55	1908	2137	2358
65	1656	1808	2005
75	1435	1504	1639
85	1299	1199	1235

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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	539.500	539.500	539.500	539.500	539.500	539.500	539.500	539.500	539.500	539.500
2.5	547.456	549.432	548.704	540.072	537.472	535.340	535.496	532.116	530.504	532.116
5.0	549.276	552.448	547.300	540.488	534.768	526.500	523.484	520.832	515.112	520.832
7.5	547.404	547.664	548.080	536.588	528.736	520.156	510.380	502.528	496.080	502.528
10.0	540.540	541.320	540.540	533.364	523.068	508.664	494.728	480.428	474.812	480.428
12.5	529.880	533.572	535.288	525.252	515.424	495.664	476.268	458.848	451.204	458.848
15.0	514.852	520.104	521.716	515.580	504.036	482.872	457.132	436.280	426.296	436.280
17.5	496.964	501.852	509.964	505.648	492.336	465.816	434.408	410.800	399.672	410.800
20.0	476.112	481.416	491.504	491.348	480.116	448.864	413.192	383.760	372.840	383.760
22.5	452.712	461.396	474.448	475.280	465.504	432.120	389.376	358.072	346.840	358.072
25.0	427.804	436.800	452.348	459.368	448.448	412.100	366.548	333.736	321.932	333.736
27.5	401.544	410.540	430.924	441.064	430.820	391.872	343.772	310.180	298.584	310.180
30.0	375.440	385.632	407.992	420.472	412.620	372.632	321.308	287.976	276.796	287.976
32.5	349.960	359.788	383.552	399.412	393.120	352.456	299.520	267.020	256.100	267.020
35.0	325.052	334.516	360.100	377.260	372.528	331.240	278.408	247.104	237.016	247.104
37.5	301.184	310.076	334.724	354.640	351.104	309.764	258.544	228.800	222.768	228.800
40.0	277.836	286.676	310.596	331.604	329.264	288.392	239.668	213.356	204.204	213.356
42.5	255.736	264.420	287.300	308.776	307.580	268.164	221.572	195.936	188.448	195.936
45.0	235.040	243.204	264.888	286.312	286.156	248.144	204.360	180.856	173.836	180.856
47.5	215.384	222.924	242.944	264.004	264.472	228.592	189.644	166.504	160.160	166.504
50.0	197.028	203.424	221.832	241.956	242.944	209.456	172.276	153.088	147.160	153.088
52.5	179.452	184.808	201.552	220.272	221.780	190.996	157.040	140.296	135.044	140.296
55.0	162.812	167.232	182.364	198.692	201.188	173.576	142.688	128.128	123.500	128.128
57.5	147.056	150.800	164.008	178.412	181.480	156.624	129.116	116.324	112.372	116.324
60.0	131.976	135.304	146.536	159.016	162.396	140.192	116.220	104.676	101.452	104.676
62.5	117.780	120.484	129.792	140.556	143.936	124.904	103.584	93.496	90.636	93.496
65.0	104.104	106.392	113.672	122.616	126.048	109.356	91.260	82.680	80.236	82.680
67.5	91.000	92.716	98.488	105.612	108.888	94.952	79.560	72.332	70.096	72.332
70.0	78.416	79.612	84.136	89.596	92.664	81.328	68.276	62.244	60.424	62.244
72.5	66.508	67.392	70.616	74.516	77.428	68.380	57.564	52.572	51.220	52.572
75.0	55.276	55.796	57.928	60.476	63.128	55.900	47.372	43.212	42.224	43.212
77.5	44.772	44.928	45.968	47.424	49.712	44.356	37.544	34.216	33.488	34.216
80.0	34.996	34.892	34.892	35.308	37.336	33.748	28.340	25.948	25.324	25.948
82.5	25.896	25.480	24.752	24.180	26.000	24.128	19.916	18.304	17.680	18.304
85.0	16.848	16.432	15.548	14.352	16.016	15.132	12.324	11.232	10.764	11.232
87.5	8.892	8.476	7.280	6.032	7.280	6.812	5.148	4.472	4.212	4.472
90.0	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	539.500	539.500	539.500	539.500	539.500	539.500	539.500
2.5	535.496	535.340	537.472	540.072	548.704	549.432	547.456
5.0	523.484	526.500	534.768	540.488	547.300	552.448	549.276
7.5	510.380	520.156	528.736	536.588	548.080	547.664	547.404
10.0	494.728	508.664	523.068	533.364	540.540	541.320	540.540
12.5	476.268	495.664	515.424	525.252	535.288	533.572	529.880
15.0	457.132	482.872	504.036	515.580	521.716	520.104	514.852
17.5	434.408	465.816	492.336	505.648	509.964	501.852	496.964
20.0	413.192	448.864	480.116	491.348	491.504	481.416	476.112
22.5	389.376	432.120	465.504	475.280	474.448	461.396	452.712
25.0	366.548	412.100	448.448	459.368	452.348	436.800	427.804
27.5	343.772	391.872	430.820	441.064	430.924	410.540	401.544
30.0	321.308	372.632	412.620	420.472	407.992	385.632	375.440

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32.5	299.520	352.456	393.120	399.412	383.552	359.788	349.960
35.0	278.408	331.240	372.528	377.260	360.100	334.516	325.052
37.5	258.544	309.764	351.104	354.640	334.724	310.076	301.184
40.0	239.668	288.392	329.264	331.604	310.596	286.676	277.836
42.5	221.572	268.164	307.580	308.776	287.300	264.420	255.736
45.0	204.360	248.144	286.156	286.312	264.888	243.204	235.040
47.5	189.644	228.592	264.472	264.004	242.944	222.924	215.384
50.0	172.276	209.456	242.944	241.956	221.832	203.424	197.028
52.5	157.040	190.996	221.780	220.272	201.552	184.808	179.452
55.0	142.688	173.576	201.188	198.692	182.364	167.232	162.812
57.5	129.116	156.624	181.480	178.412	164.008	150.800	147.056
60.0	116.220	140.192	162.396	159.016	146.536	135.304	131.976
62.5	103.584	124.904	143.936	140.556	129.792	120.484	117.780
65.0	91.260	109.356	126.048	122.616	113.672	106.392	104.104
67.5	79.560	94.952	108.888	105.612	98.488	92.716	91.000
70.0	68.276	81.328	92.664	89.596	84.136	79.612	78.416
72.5	57.564	68.380	77.428	74.516	70.616	67.392	66.508
75.0	47.372	55.900	63.128	60.476	57.928	55.796	55.276
77.5	37.544	44.356	49.712	47.424	45.968	44.928	44.772
80.0	28.340	33.748	37.336	35.308	34.892	34.892	34.996
82.5	19.916	24.128	26.000	24.180	24.752	25.480	25.896
85.0	12.324	15.132	16.016	14.352	15.548	16.432	16.848
87.5	5.148	6.812	7.280	6.032	7.280	8.476	8.892
90.0	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	187.54	N.A.	17.20
0-30	376.21	N.A.	34.40
0-40	578.08	N.A.	52.90
0-60	913.25	N.A.	83.60
0-80	1075.7	N.A.	98.50
0-90	1092.09	N.A.	100.00
10-90	1041.63	N.A.	95.40
20-40	390.55	N.A.	35.80
20-50	575.83	N.A.	52.70
40-70	440.04	N.A.	40.30
60-80	162.45	N.A.	14.90
70-80	57.58	N.A.	5.30
80-90	16.38	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	1092.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.45
10-20	137.08
20-30	188.67
30-40	201.87
40-50	185.29
50-60	149.88
60-70	104.87
70-80	57.58
80-90	16.38
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

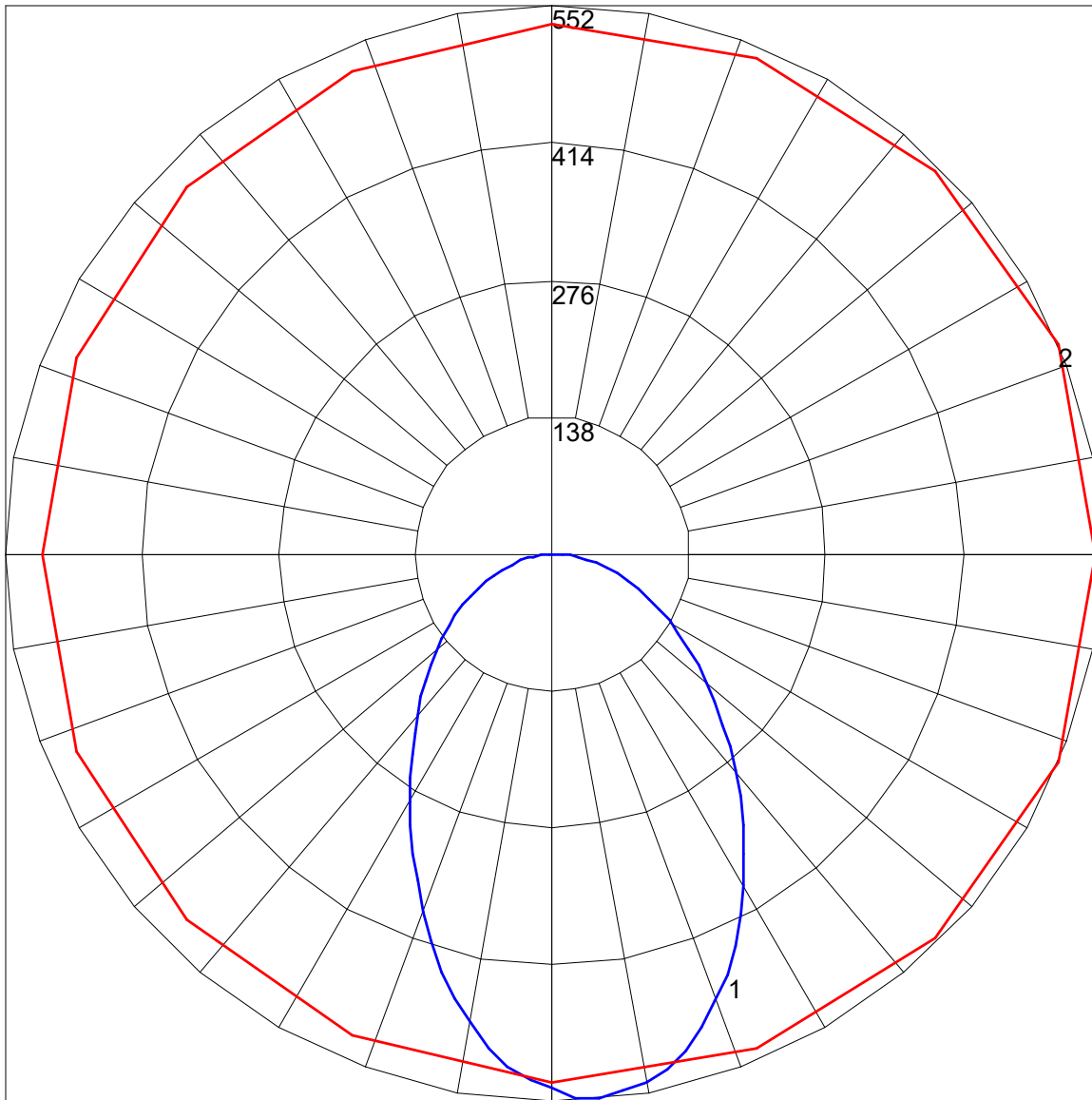
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 552.448 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.)