



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P83-FLSH-LED4-MO-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	1617
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	24
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	3308	3728	4028
55	2825	3164	3491
65	2452	2677	2968
75	2126	2228	2427
85	1924	1775	1829

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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	798.875	798.875	798.875	798.875	798.875	798.875	798.875	798.875	798.875	798.875
2.5	810.656	813.582	812.504	799.722	795.872	792.715	792.946	787.941	785.554	787.941
5.0	813.351	818.048	810.425	800.338	791.868	779.625	775.159	771.232	762.762	771.232
7.5	810.579	810.964	811.580	794.563	782.936	770.231	755.755	744.128	734.580	744.128
10.0	800.415	801.570	800.415	789.789	774.543	753.214	732.578	711.403	703.087	711.403
12.5	784.630	790.097	792.638	777.777	763.224	733.964	705.243	679.448	668.129	679.448
15.0	762.377	770.154	772.541	763.455	746.361	715.022	676.907	646.030	631.246	646.030
17.5	735.889	743.127	755.139	748.748	729.036	689.766	643.258	608.300	591.822	608.300
20.0	705.012	712.866	727.804	727.573	710.941	664.664	611.842	568.260	552.090	568.260
22.5	670.362	683.221	702.548	703.780	689.304	639.870	576.576	530.222	513.590	530.222
25.0	633.479	646.800	669.823	680.218	664.048	610.225	542.773	494.186	476.707	494.186
27.5	594.594	607.915	638.099	653.114	637.945	580.272	509.047	459.305	442.134	459.305
30.0	555.940	571.032	604.142	622.622	610.995	551.782	475.783	426.426	409.871	426.426
32.5	518.210	532.763	567.952	591.437	582.120	521.906	443.520	395.395	379.225	395.395
35.0	481.327	495.341	533.225	558.635	551.628	490.490	412.258	365.904	350.966	365.904
37.5	445.984	459.151	495.649	525.140	519.904	458.689	382.844	338.800	329.868	338.800
40.0	411.411	424.501	459.921	491.029	487.564	427.042	354.893	315.931	302.379	315.931
42.5	378.686	391.545	425.425	457.226	455.455	397.089	328.097	290.136	279.048	290.136
45.0	348.040	360.129	392.238	423.962	423.731	367.444	302.610	267.806	257.411	267.806
47.5	318.934	330.099	359.744	390.929	391.622	338.492	280.819	246.554	237.160	246.554
50.0	291.753	301.224	328.482	358.281	359.744	310.156	255.101	226.688	217.910	226.688
52.5	265.727	273.658	298.452	326.172	328.405	282.821	232.540	207.746	199.969	207.746
55.0	241.087	247.632	270.039	294.217	297.913	257.026	211.288	189.728	182.875	189.728
57.5	217.756	223.300	242.858	264.187	268.730	231.924	191.191	172.249	166.397	172.249
60.0	195.426	200.354	216.986	235.466	240.471	207.592	172.095	155.001	150.227	155.001
62.5	174.405	178.409	192.192	208.131	213.136	184.954	153.384	138.446	134.211	138.446
65.0	154.154	157.542	168.322	181.566	186.648	161.931	135.135	122.430	118.811	122.430
67.5	134.750	137.291	145.838	156.387	161.238	140.602	117.810	107.107	103.796	107.107
70.0	116.116	117.887	124.586	132.671	137.214	120.428	101.101	92.169	89.474	92.169
72.5	98.483	99.792	104.566	110.341	114.653	101.255	85.239	77.847	75.845	77.847
75.0	81.851	82.621	85.778	89.551	93.478	82.775	70.147	63.987	62.524	63.987
77.5	66.297	66.528	68.068	70.224	73.612	65.681	55.594	50.666	49.588	50.666
80.0	51.821	51.667	51.667	52.283	55.286	49.973	41.965	38.423	37.499	38.423
82.5	38.346	37.730	36.652	35.805	38.500	35.728	29.491	27.104	26.180	27.104
85.0	24.948	24.332	23.023	21.252	23.716	22.407	18.249	16.632	15.939	16.632
87.5	13.167	12.551	10.780	8.932	10.780	10.087	7.623	6.622	6.237	6.622
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	798.875	798.875	798.875	798.875	798.875	798.875	798.875
2.5	792.946	792.715	795.872	799.722	812.504	813.582	810.656
5.0	775.159	779.625	791.868	800.338	810.425	818.048	813.351
7.5	755.755	770.231	782.936	794.563	811.580	810.964	810.579
10.0	732.578	753.214	774.543	789.789	800.415	801.570	800.415
12.5	705.243	733.964	763.224	777.777	792.638	790.097	784.630
15.0	676.907	715.022	746.361	763.455	772.541	770.154	762.377
17.5	643.258	689.766	729.036	748.748	755.139	743.127	735.889
20.0	611.842	664.664	710.941	727.573	727.804	712.866	705.012
22.5	576.576	639.870	689.304	703.780	702.548	683.221	670.362
25.0	542.773	610.225	664.048	680.218	669.823	646.800	633.479
27.5	509.047	580.272	637.945	653.114	638.099	607.915	594.594
30.0	475.783	551.782	610.995	622.622	604.142	571.032	555.940

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32.5	443.520	521.906	582.120	591.437	567.952	532.763	518.210
35.0	412.258	490.490	551.628	558.635	533.225	495.341	481.327
37.5	382.844	458.689	519.904	525.140	495.649	459.151	445.984
40.0	354.893	427.042	487.564	491.029	459.921	424.501	411.411
42.5	328.097	397.089	455.455	457.226	425.425	391.545	378.686
45.0	302.610	367.444	423.731	423.962	392.238	360.129	348.040
47.5	280.819	338.492	391.622	390.929	359.744	330.099	318.934
50.0	255.101	310.156	359.744	358.281	328.482	301.224	291.753
52.5	232.540	282.821	328.405	326.172	298.452	273.658	265.727
55.0	211.288	257.026	297.913	294.217	270.039	247.632	241.087
57.5	191.191	231.924	268.730	264.187	242.858	223.300	217.756
60.0	172.095	207.592	240.471	235.466	216.986	200.354	195.426
62.5	153.384	184.954	213.136	208.131	192.192	178.409	174.405
65.0	135.135	161.931	186.648	181.566	168.322	157.542	154.154
67.5	117.810	140.602	161.238	156.387	145.838	137.291	134.750
70.0	101.101	120.428	137.214	132.671	124.586	117.887	116.116
72.5	85.239	101.255	114.653	110.341	104.566	99.792	98.483
75.0	70.147	82.775	93.478	89.551	85.778	82.621	81.851
77.5	55.594	65.681	73.612	70.224	68.068	66.528	66.297
80.0	41.965	49.973	55.286	52.283	51.667	51.667	51.821
82.5	29.491	35.728	38.500	35.805	36.652	37.730	38.346
85.0	18.249	22.407	23.716	21.252	23.023	24.332	24.948
87.5	7.623	10.087	10.780	8.932	10.780	12.551	13.167
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	277.70	N.A.	17.20
0-30	557.08	N.A.	34.40
0-40	856.01	N.A.	52.90
0-60	1352.32	N.A.	83.60
0-80	1592.87	N.A.	98.50
0-90	1617.13	N.A.	100.00
10-90	1542.42	N.A.	95.40
20-40	578.31	N.A.	35.80
20-50	852.67	N.A.	52.70
40-70	651.60	N.A.	40.30
60-80	240.55	N.A.	14.90
70-80	85.26	N.A.	5.30
80-90	24.26	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	1617.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	74.71
10-20	202.99
20-30	279.38
30-40	298.93
40-50	274.36
50-60	221.94
60-70	155.29
70-80	85.26
80-90	24.26
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

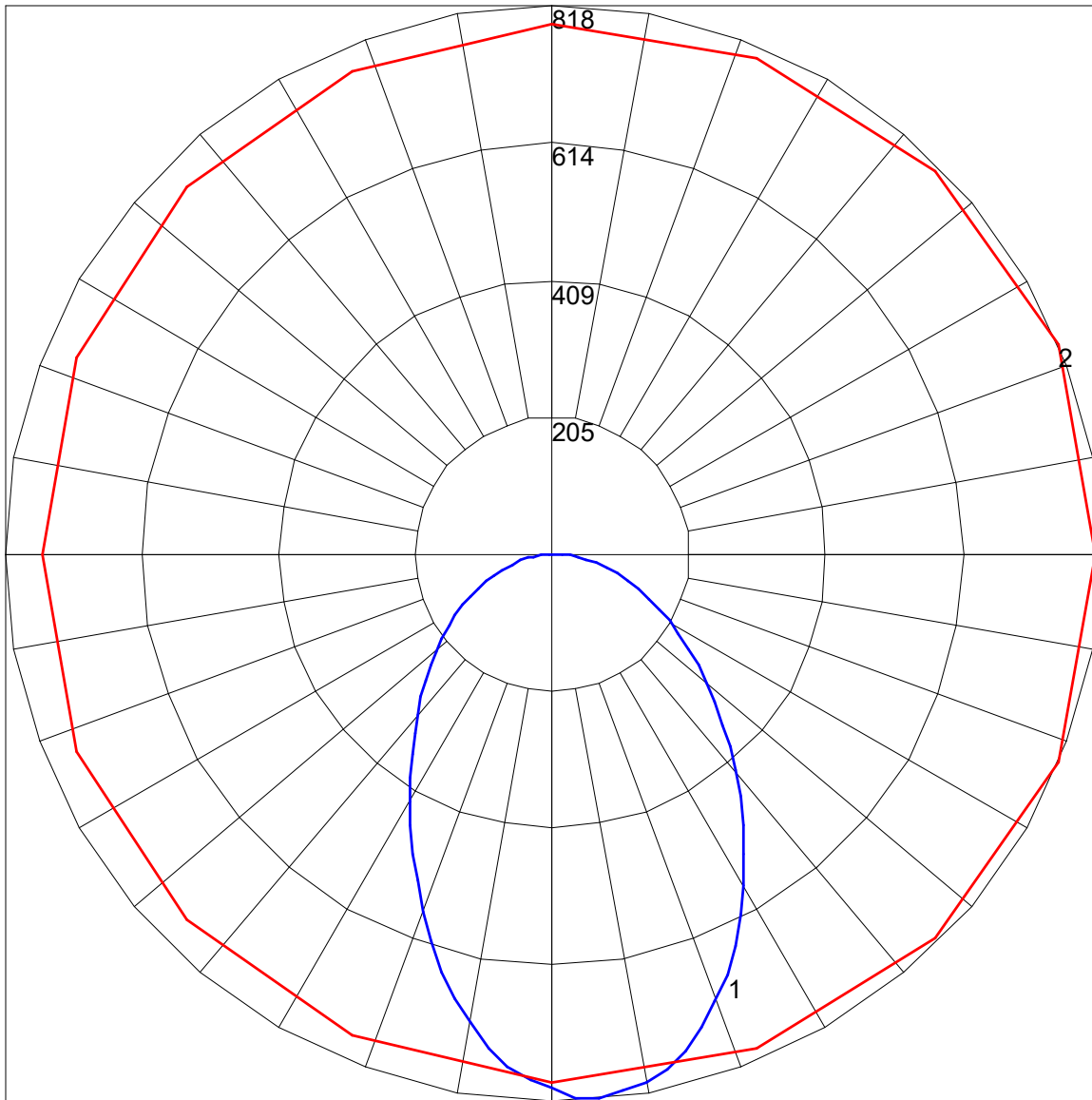
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 818.048 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.)