



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P83-FLSH-LED4-HO-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-HO-04-SAL

[LUMINAIRE]WITH WHITE INTERIOR AND FROSTED PLASTIC FLAT LENS

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2415
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	40
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	4941	5568	6015
55	4219	4726	5214
65	3661	3998	4433
75	3175	3327	3625
85	2873	2652	2731

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P83-FLSH-LED4-HO-04-SAL.IES**

**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>
<b>0.0</b>	1193.125	1193.125	1193.125	1193.125	1193.125	1193.125	1193.125	1193.125	1193.125	1193.125
<b>2.5</b>	1210.720	1215.090	1213.480	1194.390	1188.640	1183.925	1184.270	1176.795	1173.230	1176.795
<b>5.0</b>	1214.745	1221.760	1210.375	1195.310	1182.660	1164.375	1157.705	1151.840	1139.190	1151.840
<b>7.5</b>	1210.605	1211.180	1212.100	1186.685	1169.320	1150.345	1128.725	1111.360	1097.100	1111.360
<b>10.0</b>	1195.425	1197.150	1195.425	1179.555	1156.785	1124.930	1094.110	1062.485	1050.065	1062.485
<b>12.5</b>	1171.850	1180.015	1183.810	1161.615	1139.880	1096.180	1053.285	1014.760	997.855	1014.760
<b>15.0</b>	1138.615	1150.230	1153.795	1140.225	1114.695	1067.890	1010.965	964.850	942.770	964.850
<b>17.5</b>	1099.055	1109.865	1127.805	1118.260	1088.820	1030.170	960.710	908.500	883.890	908.500
<b>20.0</b>	1052.940	1064.670	1086.980	1086.635	1061.795	992.680	913.790	848.700	824.550	848.700
<b>22.5</b>	1001.190	1020.395	1049.260	1051.100	1029.480	955.650	861.120	791.890	767.050	791.890
<b>25.0</b>	946.105	966.000	1000.385	1015.910	991.760	911.375	810.635	738.070	711.965	738.070
<b>27.5</b>	888.030	907.925	953.005	975.430	952.775	866.640	760.265	685.975	660.330	685.975
<b>30.0</b>	830.300	852.840	902.290	929.890	912.525	824.090	710.585	636.870	612.145	636.870
<b>32.5</b>	773.950	795.685	848.240	883.315	869.400	779.470	662.400	590.525	566.375	590.525
<b>35.0</b>	718.865	739.795	796.375	834.325	823.860	732.550	615.710	546.480	524.170	546.480
<b>37.5</b>	666.080	685.745	740.255	784.300	776.480	685.055	571.780	506.000	492.660	506.000
<b>40.0</b>	614.445	633.995	686.895	733.355	728.180	637.790	530.035	471.845	451.605	471.845
<b>42.5</b>	565.570	584.775	635.375	682.870	680.225	593.055	490.015	433.320	416.760	433.320
<b>45.0</b>	519.800	537.855	585.810	633.190	632.845	548.780	451.950	399.970	384.445	399.970
<b>47.5</b>	476.330	493.005	537.280	583.855	584.890	505.540	419.405	368.230	354.200	368.230
<b>50.0</b>	435.735	449.880	490.590	535.095	537.280	463.220	380.995	338.560	325.450	338.560
<b>52.5</b>	396.865	408.710	445.740	487.140	490.475	422.395	347.300	310.270	298.655	310.270
<b>55.0</b>	360.065	369.840	403.305	439.415	444.935	383.870	315.560	283.360	273.125	283.360
<b>57.5</b>	325.220	333.500	362.710	394.565	401.350	346.380	285.545	257.255	248.515	257.255
<b>60.0</b>	291.870	299.230	324.070	351.670	359.145	310.040	257.025	231.495	224.365	231.495
<b>62.5</b>	260.475	266.455	287.040	310.845	318.320	276.230	229.080	206.770	200.445	206.770
<b>65.0</b>	230.230	235.290	251.390	271.170	278.760	241.845	201.825	182.850	177.445	182.850
<b>67.5</b>	201.250	205.045	217.810	233.565	240.810	209.990	175.950	159.965	155.020	159.965
<b>70.0</b>	173.420	176.065	186.070	198.145	204.930	179.860	150.995	137.655	133.630	137.655
<b>72.5</b>	147.085	149.040	156.170	164.795	171.235	151.225	127.305	116.265	113.275	116.265
<b>75.0</b>	122.245	123.395	128.110	133.745	139.610	123.625	104.765	95.565	93.380	95.565
<b>77.5</b>	99.015	99.360	101.660	104.880	109.940	98.095	83.030	75.670	74.060	75.670
<b>80.0</b>	77.395	77.165	77.165	78.085	82.570	74.635	62.675	57.385	56.005	57.385
<b>82.5</b>	57.270	56.350	54.740	53.475	57.500	53.360	44.045	40.480	39.100	40.480
<b>85.0</b>	37.260	36.340	34.385	31.740	35.420	33.465	27.255	24.840	23.805	24.840
<b>87.5</b>	19.665	18.745	16.100	13.340	16.100	15.065	11.385	9.890	9.315	9.890
<b>90.0</b>	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>
<b>0.0</b>	1193.125	1193.125	1193.125	1193.125	1193.125	1193.125	1193.125
<b>2.5</b>	1184.270	1183.925	1188.640	1194.390	1213.480	1215.090	1210.720
<b>5.0</b>	1157.705	1164.375	1182.660	1195.310	1210.375	1221.760	1214.745
<b>7.5</b>	1128.725	1150.345	1169.320	1186.685	1212.100	1211.180	1210.605
<b>10.0</b>	1094.110	1124.930	1156.785	1179.555	1195.425	1197.150	1195.425
<b>12.5</b>	1053.285	1096.180	1139.880	1161.615	1183.810	1180.015	1171.850
<b>15.0</b>	1010.965	1067.890	1114.695	1140.225	1153.795	1150.230	1138.615
<b>17.5</b>	960.710	1030.170	1088.820	1118.260	1127.805	1109.865	1099.055
<b>20.0</b>	913.790	992.680	1061.795	1086.635	1086.980	1064.670	1052.940
<b>22.5</b>	861.120	955.650	1029.480	1051.100	1049.260	1020.395	1001.190
<b>25.0</b>	810.635	911.375	991.760	1015.910	1000.385	966.000	946.105
<b>27.5</b>	760.265	866.640	952.775	975.430	953.005	907.925	888.030
<b>30.0</b>	710.585	824.090	912.525	929.890	902.290	852.840	830.300

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P83-FLSH-LED4-HO-04-SAL.IES**

**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	662.400	779.470	869.400	883.315	848.240	795.685	773.950
<b>35.0</b>	615.710	732.550	823.860	834.325	796.375	739.795	718.865
<b>37.5</b>	571.780	685.055	776.480	784.300	740.255	685.745	666.080
<b>40.0</b>	530.035	637.790	728.180	733.355	686.895	633.995	614.445
<b>42.5</b>	490.015	593.055	680.225	682.870	635.375	584.775	565.570
<b>45.0</b>	451.950	548.780	632.845	633.190	585.810	537.855	519.800
<b>47.5</b>	419.405	505.540	584.890	583.855	537.280	493.005	476.330
<b>50.0</b>	380.995	463.220	537.280	535.095	490.590	449.880	435.735
<b>52.5</b>	347.300	422.395	490.475	487.140	445.740	408.710	396.865
<b>55.0</b>	315.560	383.870	444.935	439.415	403.305	369.840	360.065
<b>57.5</b>	285.545	346.380	401.350	394.565	362.710	333.500	325.220
<b>60.0</b>	257.025	310.040	359.145	351.670	324.070	299.230	291.870
<b>62.5</b>	229.080	276.230	318.320	310.845	287.040	266.455	260.475
<b>65.0</b>	201.825	241.845	278.760	271.170	251.390	235.290	230.230
<b>67.5</b>	175.950	209.990	240.810	233.565	217.810	205.045	201.250
<b>70.0</b>	150.995	179.860	204.930	198.145	186.070	176.065	173.420
<b>72.5</b>	127.305	151.225	171.235	164.795	156.170	149.040	147.085
<b>75.0</b>	104.765	123.625	139.610	133.745	128.110	123.395	122.245
<b>77.5</b>	83.030	98.095	109.940	104.880	101.660	99.360	99.015
<b>80.0</b>	62.675	74.635	82.570	78.085	77.165	77.165	77.395
<b>82.5</b>	44.045	53.360	57.500	53.475	54.740	56.350	57.270
<b>85.0</b>	27.255	33.465	35.420	31.740	34.385	36.340	37.260
<b>87.5</b>	11.385	15.065	16.100	13.340	16.100	18.745	19.665
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P83-FLSH-LED4-HO-04-SAL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	414.74	N.A.	17.20
0-30	832.01	N.A.	34.40
0-40	1278.45	N.A.	52.90
0-60	2019.69	N.A.	83.60
0-80	2378.96	N.A.	98.50
0-90	2415.19	N.A.	100.00
10-90	2303.61	N.A.	95.40
20-40	863.71	N.A.	35.80
20-50	1273.47	N.A.	52.70
40-70	973.17	N.A.	40.30
60-80	359.27	N.A.	14.90
70-80	127.34	N.A.	5.30
80-90	36.23	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	2415.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	111.58
10-20	303.16
20-30	417.26
30-40	446.45
40-50	409.77
50-60	331.47
60-70	231.93
70-80	127.34
80-90	36.23
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

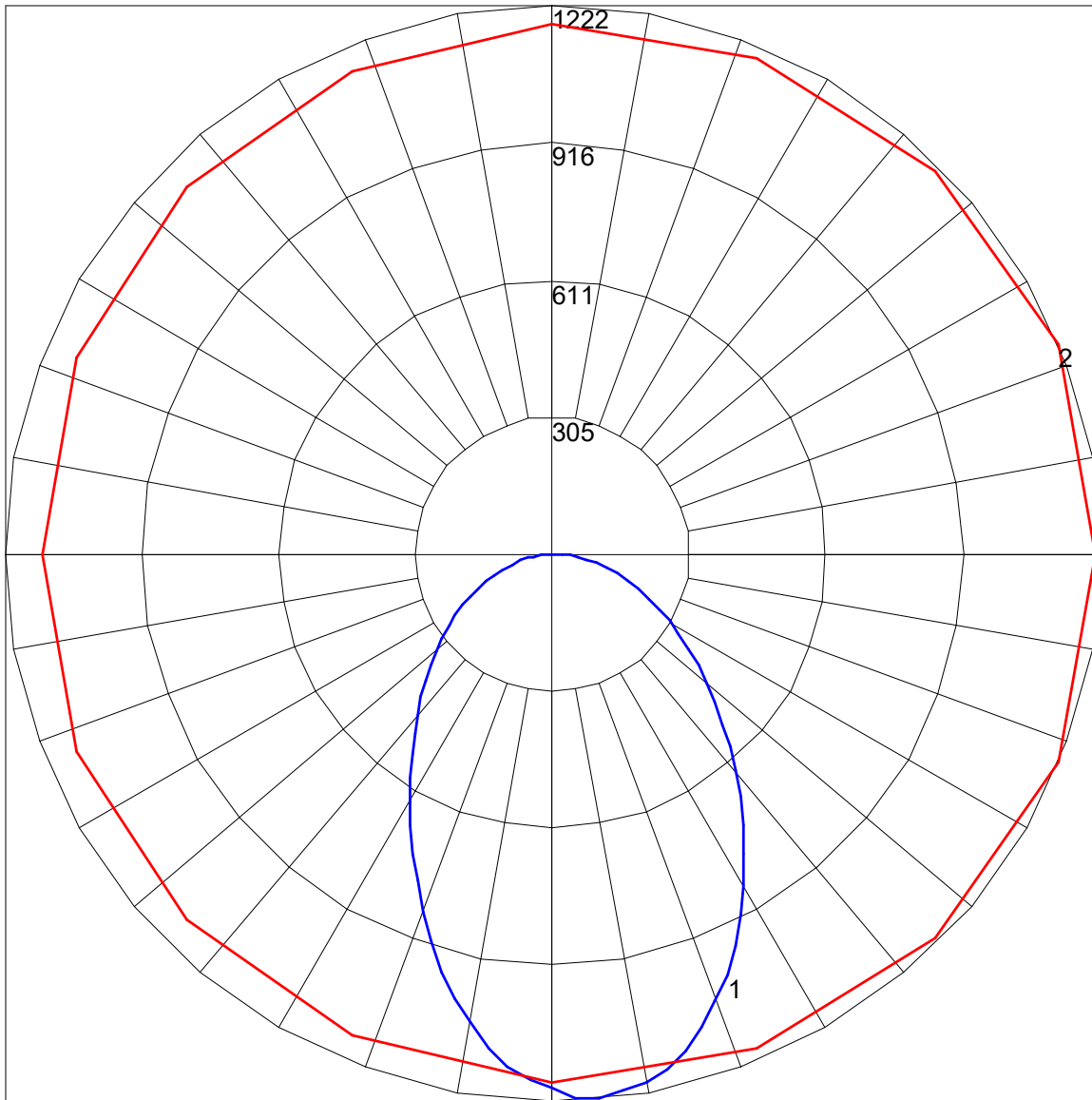
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P83-FLSH-LED4-HO-04-SAL.IES**

**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 = 1221.76 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.)