



IES INDOOR REPORT

PHOTOMETRIC FILENAME : S1-LED4MO-04-LPA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L121401601
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 12/9/2014
 [MANUFAC] PRUDENTIAL LIGHTING
 [LUMCAT] S1-LED4MO-04-LPA
 [LUMINAIRE] 48"L. X 2-1/4"W. X 3-1/4"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC OT
 [BALLAST]
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2482
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.50
Spacing Criterion (90-270)	1.80
Spacing Criterion (Diagonal)	1.70
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.19 ft
Luminous Height	0.13 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8357	7541	5815
55	8502	4905	4025
65	6766	3217	2705
75	3986	2181	1775
85	1989	1794	1402

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	463.68	463.68	463.68	463.68	463.68	463.68	463.68	463.68	463.68	463.68
5	461.44	461.44	463.68	467.04	472.64	479.36	486.08	493.92	502.88	510.72
10	460.32	462.56	469.28	482.72	499.52	521.92	547.68	575.68	605.92	637.28
15	458.08	463.68	479.36	506.24	544.32	591.36	646.24	706.72	769.44	832.16
20	455.84	464.80	492.80	538.72	603.68	683.20	771.68	863.52	952.00	1027.04
25	453.60	467.04	508.48	577.92	672.00	781.76	891.52	988.96	1060.64	1098.72
30	451.36	470.40	527.52	618.24	735.84	856.80	956.48	1019.20	1036.00	1016.96
35	448.00	472.64	542.08	648.48	771.68	875.84	937.44	945.28	911.68	862.40
40	443.52	470.40	547.68	654.08	758.24	828.80	842.24	808.64	754.88	707.84
45	431.20	459.20	530.88	618.24	693.28	723.52	701.12	651.84	603.68	567.84
50	406.56	428.96	482.72	540.96	583.52	583.52	547.68	502.88	467.04	443.52
55	360.64	374.08	404.32	436.80	455.84	442.40	409.92	377.44	355.04	342.72
60	297.92	303.52	316.96	334.88	341.60	328.16	304.64	285.60	273.28	266.56
65	216.16	218.40	224.00	234.08	238.56	229.60	217.28	207.20	202.72	200.48
70	141.12	142.24	147.84	155.68	161.28	159.04	154.56	151.20	150.08	151.20
75	81.76	84.00	91.84	100.80	107.52	110.88	110.88	112.00	114.24	115.36
80	41.44	44.80	52.64	62.72	71.68	77.28	81.76	85.12	88.48	90.72
85	16.80	21.28	32.48	39.20	48.16	56.00	61.60	67.20	71.68	75.04
90	0.00	10.08	14.56	28.00	33.60	41.44	49.28	54.88	60.48	63.84
95	0.00	8.96	12.32	16.80	29.12	33.60	40.32	47.04	51.52	56.00
100	0.00	0.00	11.20	14.56	21.28	30.24	34.72	40.32	44.80	49.28
105	0.00	0.00	10.08	13.44	16.80	24.64	31.36	34.72	39.20	42.56
110	0.00	0.00	8.96	12.32	14.56	21.28	25.76	31.36	34.72	38.08
115	0.00	0.00	8.96	11.20	14.56	17.92	22.40	28.00	30.24	33.60
120	0.00	0.00	8.96	11.20	13.44	16.80	19.04	23.52	26.88	29.12
125	0.00	0.00	8.96	10.08	12.32	15.68	17.92	20.16	23.52	25.76
130	0.00	0.00	8.96	10.08	11.20	13.44	16.80	17.92	20.16	22.40
135	0.00	0.00	8.96	8.96	11.20	12.32	14.56	16.80	17.92	19.04
140	0.00	0.00	8.96	8.96	10.08	11.20	13.44	14.56	16.80	17.92
145	0.00	0.00	8.96	8.96	10.08	11.20	12.32	13.44	14.56	15.68
150	0.00	0.00	8.96	8.96	10.08	10.08	11.20	12.32	13.44	13.44
155	0.00	0.00	8.96	10.08	10.08	10.08	10.08	11.20	11.20	12.32
160	0.00	0.00	10.08	10.08	10.08	10.08	10.08	10.08	11.20	11.20
165	0.00	0.00	10.08	10.08	10.08	10.08	10.08	10.08	10.08	10.08
170	0.00	0.00	10.08	10.08	10.08	10.08	10.08	10.08	10.08	10.08
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	463.68	463.68	463.68	463.68	463.68	463.68	463.68	463.68	463.68
5	519.68	527.52	535.36	542.08	547.68	552.16	555.52	558.88	561.12
10	667.52	697.76	725.76	750.40	771.68	788.48	801.92	809.76	816.48
15	891.52	945.28	993.44	1030.40	1061.76	1084.16	1098.72	1109.92	1114.40
20	1084.16	1125.60	1150.24	1161.44	1165.92	1164.80	1161.44	1161.44	1158.08
25	1107.68	1096.48	1075.20	1051.68	1029.28	1009.12	995.68	987.84	983.36
30	980.00	938.56	902.72	874.72	853.44	835.52	824.32	819.84	817.60
35	816.48	778.40	750.40	731.36	716.80	706.72	698.88	696.64	695.52
40	670.88	645.12	627.20	614.88	605.92	599.20	594.72	593.60	592.48
45	542.08	525.28	514.08	505.12	499.52	495.04	491.68	490.56	489.44
50	427.84	417.76	411.04	406.56	402.08	399.84	397.60	398.72	398.72
55	334.88	330.40	327.04	324.80	323.68	323.68	321.44	321.44	322.56
60	263.20	262.08	260.96	260.96	259.84	259.84	258.72	258.72	259.84

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CANDELA TABULATION - (Cont.)

65	200.48	200.48	200.48	199.36	199.36	199.36	198.24	198.24	199.36
70	151.20	151.20	151.20	151.20	151.20	151.20	150.08	151.20	151.20
75	116.48	116.48	116.48	116.48	116.48	115.36	115.36	115.36	115.36
80	91.84	92.96	92.96	92.96	92.96	91.84	91.84	91.84	91.84
85	76.16	77.28	78.40	78.40	77.28	77.28	77.28	77.28	76.16
90	66.08	67.20	68.32	68.32	68.32	68.32	67.20	67.20	67.20
95	58.24	59.36	60.48	61.60	61.60	61.60	61.60	61.60	61.60
100	51.52	53.76	54.88	56.00	56.00	56.00	56.00	56.00	56.00
105	45.92	48.16	49.28	50.40	50.40	51.52	51.52	51.52	51.52
110	40.32	42.56	44.80	45.92	45.92	47.04	47.04	47.04	47.04
115	35.84	38.08	39.20	40.32	41.44	42.56	42.56	42.56	42.56
120	31.36	33.60	34.72	35.84	36.96	38.08	38.08	38.08	38.08
125	28.00	29.12	30.24	31.36	32.48	33.60	33.60	34.72	34.72
130	24.64	25.76	26.88	28.00	29.12	29.12	30.24	30.24	30.24
135	21.28	22.40	23.52	24.64	25.76	25.76	26.88	26.88	26.88
140	19.04	20.16	21.28	21.28	22.40	23.52	23.52	23.52	23.52
145	16.80	17.92	19.04	19.04	20.16	20.16	20.16	21.28	21.28
150	14.56	15.68	16.80	16.80	17.92	17.92	17.92	17.92	17.92
155	13.44	13.44	14.56	14.56	15.68	15.68	15.68	15.68	15.68
160	11.20	12.32	12.32	12.32	12.32	13.44	13.44	13.44	13.44
165	11.20	11.20	11.20	11.20	11.20	11.20	11.20	11.20	11.20
170	10.08	10.08	10.08	10.08	10.08	11.20	11.20	11.20	11.20
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	279.91	N.A.	11.30
0-30	687.35	N.A.	27.70
0-40	1153.46	N.A.	46.50
0-60	1913.03	N.A.	77.10
0-80	2244.00	N.A.	90.40
0-90	2314.72	N.A.	93.30
10-90	2262.05	N.A.	91.10
20-40	873.55	N.A.	35.20
20-50	1304.63	N.A.	52.60
40-70	971.18	N.A.	39.10
60-80	330.97	N.A.	13.30
70-80	119.35	N.A.	4.80
80-90	70.72	N.A.	2.80
90-110	87.22	N.A.	3.50
90-120	115.47	N.A.	4.70
90-130	135.75	N.A.	5.50
90-150	158.78	N.A.	6.40
90-180	167.39	N.A.	6.70
110-180	80.17	N.A.	3.20
0-180	2482.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.67
10-20	227.24
20-30	407.44
30-40	466.11
40-50	431.07
50-60	328.49
60-70	211.62
70-80	119.35
80-90	70.72
90-100	49.57
100-110	37.64
110-120	28.26
120-130	20.28
130-140	13.90
140-150	9.12
150-160	5.45
160-170	2.82
170-180	0.34

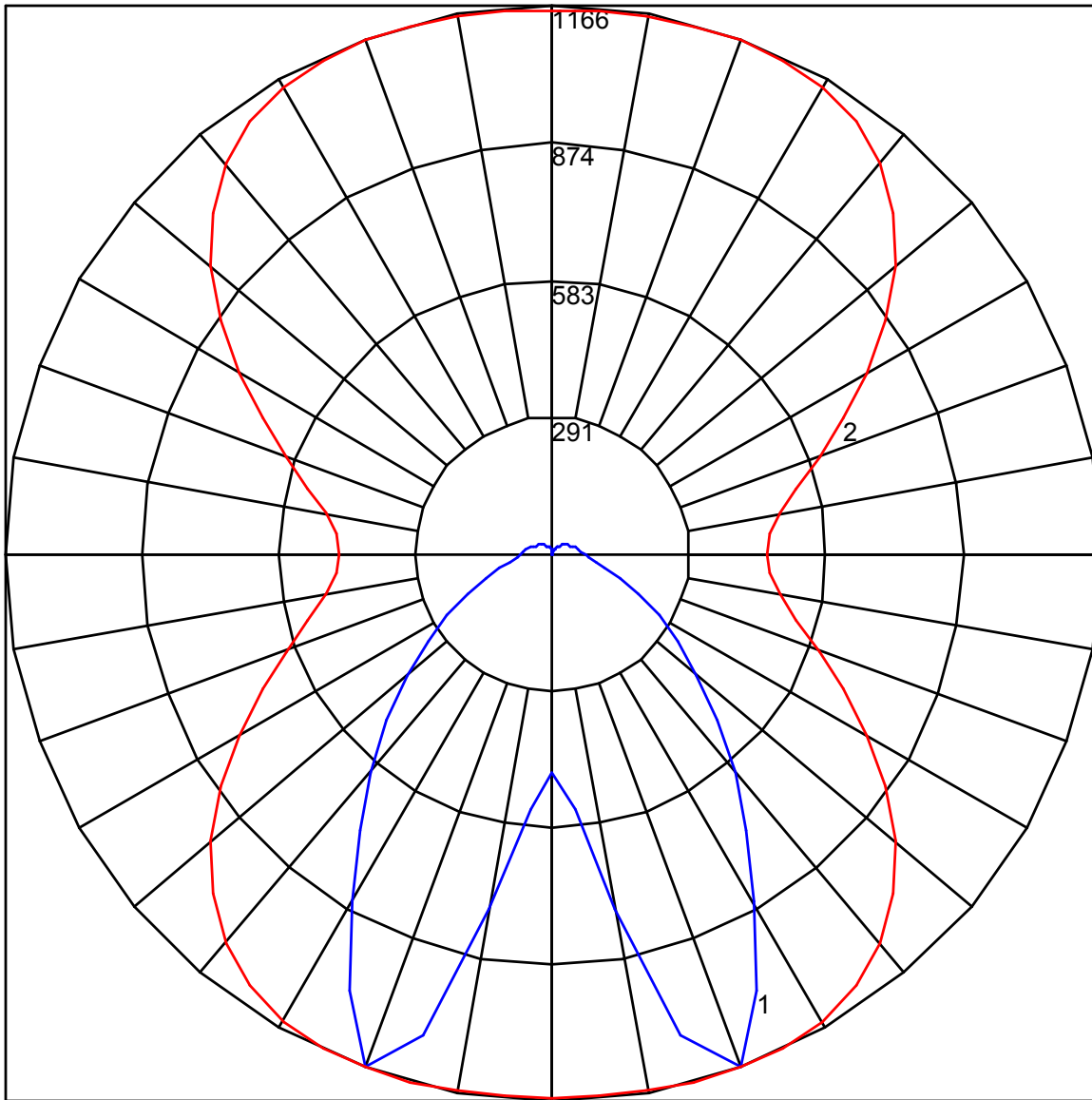
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66
3	90	80	72	66	87	78	70	65	74	68	63	70	65	61	67	63	59	57
4	82	71	63	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49
5	76	64	55	48	73	62	54	48	59	52	47	57	50	46	54	49	45	42
6	70	57	49	42	68	56	48	42	54	46	41	51	45	40	49	44	39	37
7	65	52	43	37	63	51	43	37	49	42	36	47	40	36	45	39	35	33
8	61	47	39	33	59	46	38	33	44	37	32	43	36	32	41	35	31	29
9	56	43	35	30	55	42	35	30	41	34	29	39	33	29	38	32	28	26
10	53	40	32	27	51	39	32	27	38	31	26	36	30	26	35	30	26	24

POLAR GRAPH



Maximum Candela = 1165.92 Located At Horizontal Angle = 70, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (70 - 250) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)