



IES INDOOR REPORT

PHOTOMETRIC FILENAME : S1-LED4SO-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-LED4SO-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	3546
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	35
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	11939	10773	8307
55	12146	7007	5750
65	9665	4595	3865
75	5695	3116	2535
85	2841	2562	2003

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	662.4	662.4	662.4	662.4	662.4	662.4	662.4	662.4	662.4	662.4
5	659.2	659.2	662.4	667.2	675.2	684.8	694.4	705.6	718.4	729.6
10	657.6	660.8	670.4	689.6	713.6	745.6	782.4	822.4	865.6	910.4
15	654.4	662.4	684.8	723.2	777.6	844.8	923.2	1009.6	1099.2	1188.8
20	651.2	664.0	704.0	769.6	862.4	976.0	1102.4	1233.6	1360.0	1467.2
25	648.0	667.2	726.4	825.6	960.0	1116.8	1273.6	1412.8	1515.2	1569.6
30	644.8	672.0	753.6	883.2	1051.2	1224.0	1366.4	1456.0	1480.0	1452.8
35	640.0	675.2	774.4	926.4	1102.4	1251.2	1339.2	1350.4	1302.4	1232.0
40	633.6	672.0	782.4	934.4	1083.2	1184.0	1203.2	1155.2	1078.4	1011.2
45	616.0	656.0	758.4	883.2	990.4	1033.6	1001.6	931.2	862.4	811.2
50	580.8	612.8	689.6	772.8	833.6	833.6	782.4	718.4	667.2	633.6
55	515.2	534.4	577.6	624.0	651.2	632.0	585.6	539.2	507.2	489.6
60	425.6	433.6	452.8	478.4	488.0	468.8	435.2	408.0	390.4	380.8
65	308.8	312.0	320.0	334.4	340.8	328.0	310.4	296.0	289.6	286.4
70	201.6	203.2	211.2	222.4	230.4	227.2	220.8	216.0	214.4	216.0
75	116.8	120.0	131.2	144.0	153.6	158.4	158.4	160.0	163.2	164.8
80	59.2	64.0	75.2	89.6	102.4	110.4	116.8	121.6	126.4	129.6
85	24.0	30.4	46.4	56.0	68.8	80.0	88.0	96.0	102.4	107.2
90	0.0	14.4	20.8	40.0	48.0	59.2	70.4	78.4	86.4	91.2
95	0.0	12.8	17.6	24.0	41.6	48.0	57.6	67.2	73.6	80.0
100	0.0	0.0	16.0	20.8	30.4	43.2	49.6	57.6	64.0	70.4
105	0.0	0.0	14.4	19.2	24.0	35.2	44.8	49.6	56.0	60.8
110	0.0	0.0	12.8	17.6	20.8	30.4	36.8	44.8	49.6	54.4
115	0.0	0.0	12.8	16.0	20.8	25.6	32.0	40.0	43.2	48.0
120	0.0	0.0	12.8	16.0	19.2	24.0	27.2	33.6	38.4	41.6
125	0.0	0.0	12.8	14.4	17.6	22.4	25.6	28.8	33.6	36.8
130	0.0	0.0	12.8	14.4	16.0	19.2	24.0	25.6	28.8	32.0
135	0.0	0.0	12.8	12.8	16.0	17.6	20.8	24.0	25.6	27.2
140	0.0	0.0	12.8	12.8	14.4	16.0	19.2	20.8	24.0	25.6
145	0.0	0.0	12.8	12.8	14.4	16.0	17.6	19.2	20.8	22.4
150	0.0	0.0	12.8	12.8	14.4	14.4	16.0	17.6	19.2	19.2
155	0.0	0.0	12.8	14.4	14.4	14.4	14.4	16.0	16.0	17.6
160	0.0	0.0	14.4	14.4	14.4	14.4	14.4	14.4	16.0	16.0
165	0.0	0.0	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
170	0.0	0.0	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Vert.
Angles**

Horizontal Angles

	50	55	60	65	70	75	80	85	90
0	662.4	662.4	662.4	662.4	662.4	662.4	662.4	662.4	662.4
5	742.4	753.6	764.8	774.4	782.4	788.8	793.6	798.4	801.6
10	953.6	996.8	1036.8	1072.0	1102.4	1126.4	1145.6	1156.8	1166.4
15	1273.6	1350.4	1419.2	1472.0	1516.8	1548.8	1569.6	1585.6	1592.0
20	1548.8	1608.0	1643.2	1659.2	1665.6	1664.0	1659.2	1659.2	1654.4
25	1582.4	1566.4	1536.0	1502.4	1470.4	1441.6	1422.4	1411.2	1404.8
30	1400.0	1340.8	1289.6	1249.6	1219.2	1193.6	1177.6	1171.2	1168.0
35	1166.4	1112.0	1072.0	1044.8	1024.0	1009.6	998.4	995.2	993.6
40	958.4	921.6	896.0	878.4	865.6	856.0	849.6	848.0	846.4
45	774.4	750.4	734.4	721.6	713.6	707.2	702.4	700.8	699.2
50	611.2	596.8	587.2	580.8	574.4	571.2	568.0	569.6	569.6
55	478.4	472.0	467.2	464.0	462.4	462.4	459.2	459.2	460.8
60	376.0	374.4	372.8	372.8	371.2	371.2	369.6	369.6	371.2

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CANDELA TABULATION - (Cont.)

65	286.4	286.4	286.4	284.8	284.8	284.8	283.2	283.2	284.8
70	216.0	216.0	216.0	216.0	216.0	216.0	214.4	216.0	216.0
75	166.4	166.4	166.4	166.4	166.4	164.8	164.8	164.8	164.8
80	131.2	132.8	132.8	132.8	132.8	131.2	131.2	131.2	131.2
85	108.8	110.4	112.0	112.0	110.4	110.4	110.4	110.4	108.8
90	94.4	96.0	97.6	97.6	97.6	97.6	96.0	96.0	96.0
95	83.2	84.8	86.4	88.0	88.0	88.0	88.0	88.0	88.0
100	73.6	76.8	78.4	80.0	80.0	80.0	80.0	80.0	80.0
105	65.6	68.8	70.4	72.0	72.0	73.6	73.6	73.6	73.6
110	57.6	60.8	64.0	65.6	65.6	67.2	67.2	67.2	67.2
115	51.2	54.4	56.0	57.6	59.2	60.8	60.8	60.8	60.8
120	44.8	48.0	49.6	51.2	52.8	54.4	54.4	54.4	54.4
125	40.0	41.6	43.2	44.8	46.4	48.0	48.0	49.6	49.6
130	35.2	36.8	38.4	40.0	41.6	41.6	43.2	43.2	43.2
135	30.4	32.0	33.6	35.2	36.8	36.8	38.4	38.4	38.4
140	27.2	28.8	30.4	30.4	32.0	33.6	33.6	33.6	33.6
145	24.0	25.6	27.2	27.2	28.8	28.8	28.8	30.4	30.4
150	20.8	22.4	24.0	24.0	25.6	25.6	25.6	25.6	25.6
155	19.2	19.2	20.8	20.8	22.4	22.4	22.4	22.4	22.4
160	16.0	17.6	17.6	17.6	17.6	19.2	19.2	19.2	19.2
165	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
170	14.4	14.4	14.4	14.4	14.4	16.0	16.0	16.0	16.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	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	399.87	N.A.	11.30
0-30	981.93	N.A.	27.70
0-40	1647.8	N.A.	46.50
0-60	2732.9	N.A.	77.10
0-80	3205.71	N.A.	90.40
0-90	3306.74	N.A.	93.30
10-90	3231.5	N.A.	91.10
20-40	1247.93	N.A.	35.20
20-50	1863.75	N.A.	52.60
40-70	1387.4	N.A.	39.10
60-80	472.81	N.A.	13.30
70-80	170.51	N.A.	4.80
80-90	101.03	N.A.	2.80
90-110	124.59	N.A.	3.50
90-120	164.96	N.A.	4.70
90-130	193.93	N.A.	5.50
90-150	226.82	N.A.	6.40
90-180	239.12	N.A.	6.70
110-180	114.53	N.A.	3.20
0-180	3545.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.24
10-20	324.63
20-30	582.06
30-40	665.87
40-50	615.82
50-60	469.28
60-70	302.31
70-80	170.51
80-90	101.03
90-100	70.82
100-110	53.78
110-120	40.37
120-130	28.97
130-140	19.86
140-150	13.03
150-160	7.79
160-170	4.02
170-180	0.48

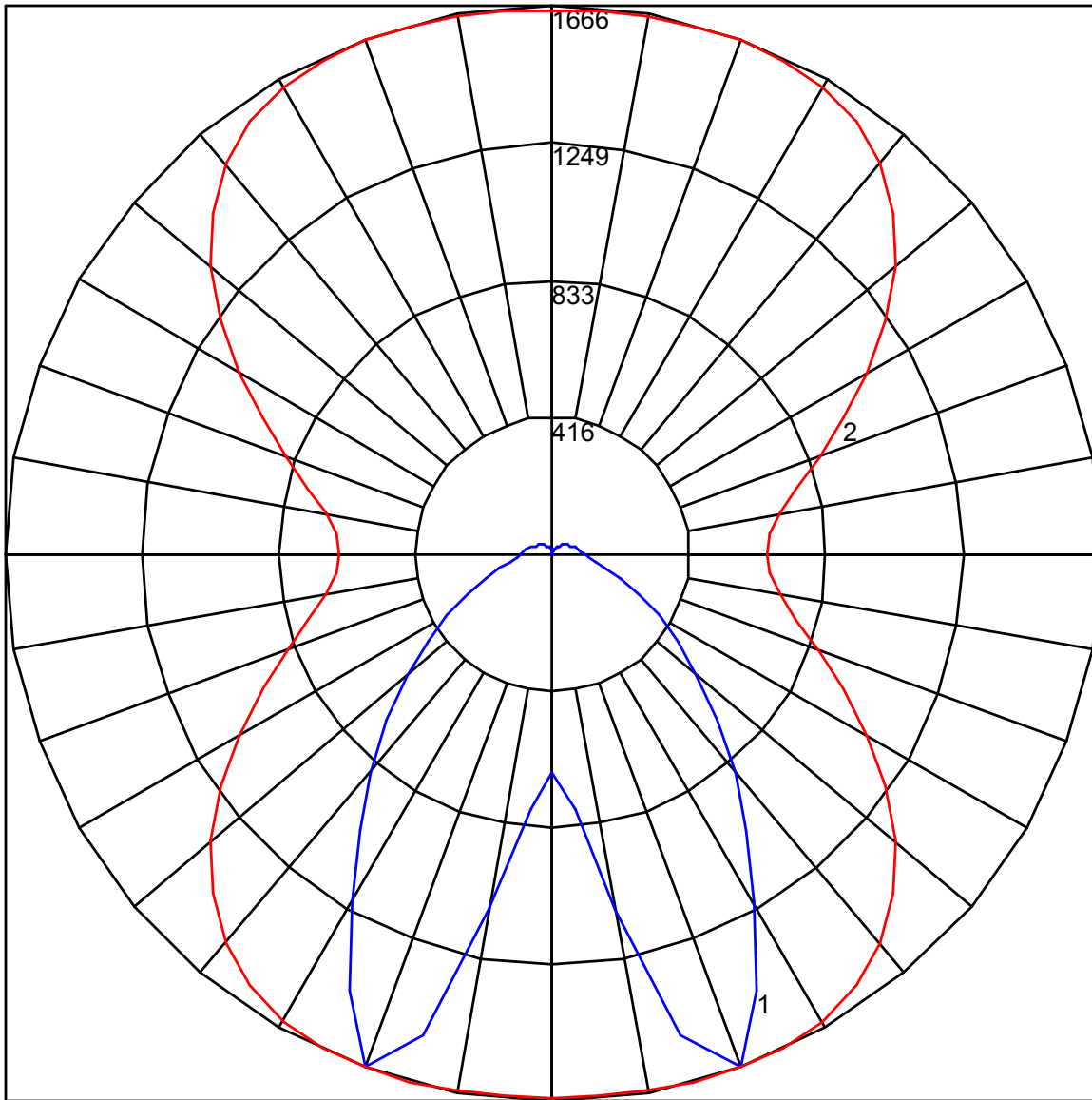
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	29	26	24

POLAR GRAPH



Maximum Candela = 1665.6 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.)