



IES INDOOR REPORT

PHOTOMETRIC FILENAME : R1-LED4-HO-04-LLP.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] R1-LED4-HO-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	4654
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	47
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	15669	14140	10904
55	15942	9196	7546
65	12686	6031	5072
75	7474	4090	3328
85	3729	3363	2628

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4
5	865.2	865.2	869.4	875.7	886.2	898.8	911.4	926.1	942.9	957.6
10	863.1	867.3	879.9	905.1	936.6	978.6	1026.9	1079.4	1136.1	1194.9
15	858.9	869.4	898.8	949.2	1020.6	1108.8	1211.7	1325.1	1442.7	1560.3
20	854.7	871.5	924.0	1010.1	1131.9	1281.0	1446.9	1619.1	1785.0	1925.7
25	850.5	875.7	953.4	1083.6	1260.0	1465.8	1671.6	1854.3	1988.7	2060.1
30	846.3	882.0	989.1	1159.2	1379.7	1606.5	1793.4	1911.0	1942.5	1906.8
35	840.0	886.2	1016.4	1215.9	1446.9	1642.2	1757.7	1772.4	1709.4	1617.0
40	831.6	882.0	1026.9	1226.4	1421.7	1554.0	1579.2	1516.2	1415.4	1327.2
45	808.5	861.0	995.4	1159.2	1299.9	1356.6	1314.6	1222.2	1131.9	1064.7
50	762.3	804.3	905.1	1014.3	1094.1	1094.1	1026.9	942.9	875.7	831.6
55	676.2	701.4	758.1	819.0	854.7	829.5	768.6	707.7	665.7	642.6
60	558.6	569.1	594.3	627.9	640.5	615.3	571.2	535.5	512.4	499.8
65	405.3	409.5	420.0	438.9	447.3	430.5	407.4	388.5	380.1	375.9
70	264.6	266.7	277.2	291.9	302.4	298.2	289.8	283.5	281.4	283.5
75	153.3	157.5	172.2	189.0	201.6	207.9	207.9	210.0	214.2	216.3
80	77.7	84.0	98.7	117.6	134.4	144.9	153.3	159.6	165.9	170.1
85	31.5	39.9	60.9	73.5	90.3	105.0	115.5	126.0	134.4	140.7
90	0.0	18.9	27.3	52.5	63.0	77.7	92.4	102.9	113.4	119.7
95	0.0	16.8	23.1	31.5	54.6	63.0	75.6	88.2	96.6	105.0
100	0.0	0.0	21.0	27.3	39.9	56.7	65.1	75.6	84.0	92.4
105	0.0	0.0	18.9	25.2	31.5	46.2	58.8	65.1	73.5	79.8
110	0.0	0.0	16.8	23.1	27.3	39.9	48.3	58.8	65.1	71.4
115	0.0	0.0	16.8	21.0	27.3	33.6	42.0	52.5	56.7	63.0
120	0.0	0.0	16.8	21.0	25.2	31.5	35.7	44.1	50.4	54.6
125	0.0	0.0	16.8	18.9	23.1	29.4	33.6	37.8	44.1	48.3
130	0.0	0.0	16.8	18.9	21.0	25.2	31.5	33.6	37.8	42.0
135	0.0	0.0	16.8	16.8	21.0	23.1	27.3	31.5	33.6	35.7
140	0.0	0.0	16.8	16.8	18.9	21.0	25.2	27.3	31.5	33.6
145	0.0	0.0	16.8	16.8	18.9	21.0	23.1	25.2	27.3	29.4
150	0.0	0.0	16.8	16.8	18.9	18.9	21.0	23.1	25.2	25.2
155	0.0	0.0	16.8	18.9	18.9	18.9	18.9	21.0	21.0	23.1
160	0.0	0.0	18.9	18.9	18.9	18.9	18.9	18.9	21.0	21.0
165	0.0	0.0	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
170	0.0	0.0	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
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	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4
5	974.4	989.1	1003.8	1016.4	1026.9	1035.3	1041.6	1047.9	1052.1
10	1251.6	1308.3	1360.8	1407.0	1446.9	1478.4	1503.6	1518.3	1530.9
15	1671.6	1772.4	1862.7	1932.0	1990.8	2032.8	2060.1	2081.1	2089.5
20	2032.8	2110.5	2156.7	2177.7	2186.1	2184.0	2177.7	2177.7	2171.4
25	2076.9	2055.9	2016.0	1971.9	1929.9	1892.1	1866.9	1852.2	1843.8
30	1837.5	1759.8	1692.6	1640.1	1600.2	1566.6	1545.6	1537.2	1533.0
35	1530.9	1459.5	1407.0	1371.3	1344.0	1325.1	1310.4	1306.2	1304.1
40	1257.9	1209.6	1176.0	1152.9	1136.1	1123.5	1115.1	1113.0	1110.9
45	1016.4	984.9	963.9	947.1	936.6	928.2	921.9	919.8	917.7
50	802.2	783.3	770.7	762.3	753.9	749.7	745.5	747.6	747.6
55	627.9	619.5	613.2	609.0	606.9	606.9	602.7	602.7	604.8
60	493.5	491.4	489.3	489.3	487.2	487.2	485.1	485.1	487.2

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CANDELA TABULATION - (Cont.)

65	375.9	375.9	375.9	373.8	373.8	373.8	371.7	371.7	373.8
70	283.5	283.5	283.5	283.5	283.5	283.5	281.4	283.5	283.5
75	218.4	218.4	218.4	218.4	218.4	216.3	216.3	216.3	216.3
80	172.2	174.3	174.3	174.3	174.3	172.2	172.2	172.2	172.2
85	142.8	144.9	147.0	147.0	144.9	144.9	144.9	144.9	142.8
90	123.9	126.0	128.1	128.1	128.1	128.1	126.0	126.0	126.0
95	109.2	111.3	113.4	115.5	115.5	115.5	115.5	115.5	115.5
100	96.6	100.8	102.9	105.0	105.0	105.0	105.0	105.0	105.0
105	86.1	90.3	92.4	94.5	94.5	96.6	96.6	96.6	96.6
110	75.6	79.8	84.0	86.1	86.1	88.2	88.2	88.2	88.2
115	67.2	71.4	73.5	75.6	77.7	79.8	79.8	79.8	79.8
120	58.8	63.0	65.1	67.2	69.3	71.4	71.4	71.4	71.4
125	52.5	54.6	56.7	58.8	60.9	63.0	63.0	65.1	65.1
130	46.2	48.3	50.4	52.5	54.6	54.6	56.7	56.7	56.7
135	39.9	42.0	44.1	46.2	48.3	48.3	50.4	50.4	50.4
140	35.7	37.8	39.9	39.9	42.0	44.1	44.1	44.1	44.1
145	31.5	33.6	35.7	35.7	37.8	37.8	37.8	39.9	39.9
150	27.3	29.4	31.5	31.5	33.6	33.6	33.6	33.6	33.6
155	25.2	25.2	27.3	27.3	29.4	29.4	29.4	29.4	29.4
160	21.0	23.1	23.1	23.1	23.1	25.2	25.2	25.2	25.2
165	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
170	18.9	18.9	18.9	18.9	18.9	21.0	21.0	21.0	21.0
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	524.83	N.A.	11.30
0-30	1288.78	N.A.	27.70
0-40	2162.74	N.A.	46.50
0-60	3586.93	N.A.	77.10
0-80	4207.5	N.A.	90.40
0-90	4340.09	N.A.	93.30
10-90	4241.34	N.A.	91.10
20-40	1637.91	N.A.	35.20
20-50	2446.18	N.A.	52.60
40-70	1820.97	N.A.	39.10
60-80	620.57	N.A.	13.30
70-80	223.79	N.A.	4.80
80-90	132.60	N.A.	2.80
90-110	163.53	N.A.	3.50
90-120	216.51	N.A.	4.70
90-130	254.54	N.A.	5.50
90-150	297.70	N.A.	6.40
90-180	313.85	N.A.	6.70
110-180	150.32	N.A.	3.20
0-180	4653.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.76
10-20	426.07
20-30	763.96
30-40	873.96
40-50	808.26
50-60	615.93
60-70	396.78
70-80	223.79
80-90	132.60
90-100	92.95
100-110	70.58
110-120	52.98
120-130	38.02
130-140	26.06
140-150	17.11
150-160	10.23
160-170	5.28
170-180	0.63

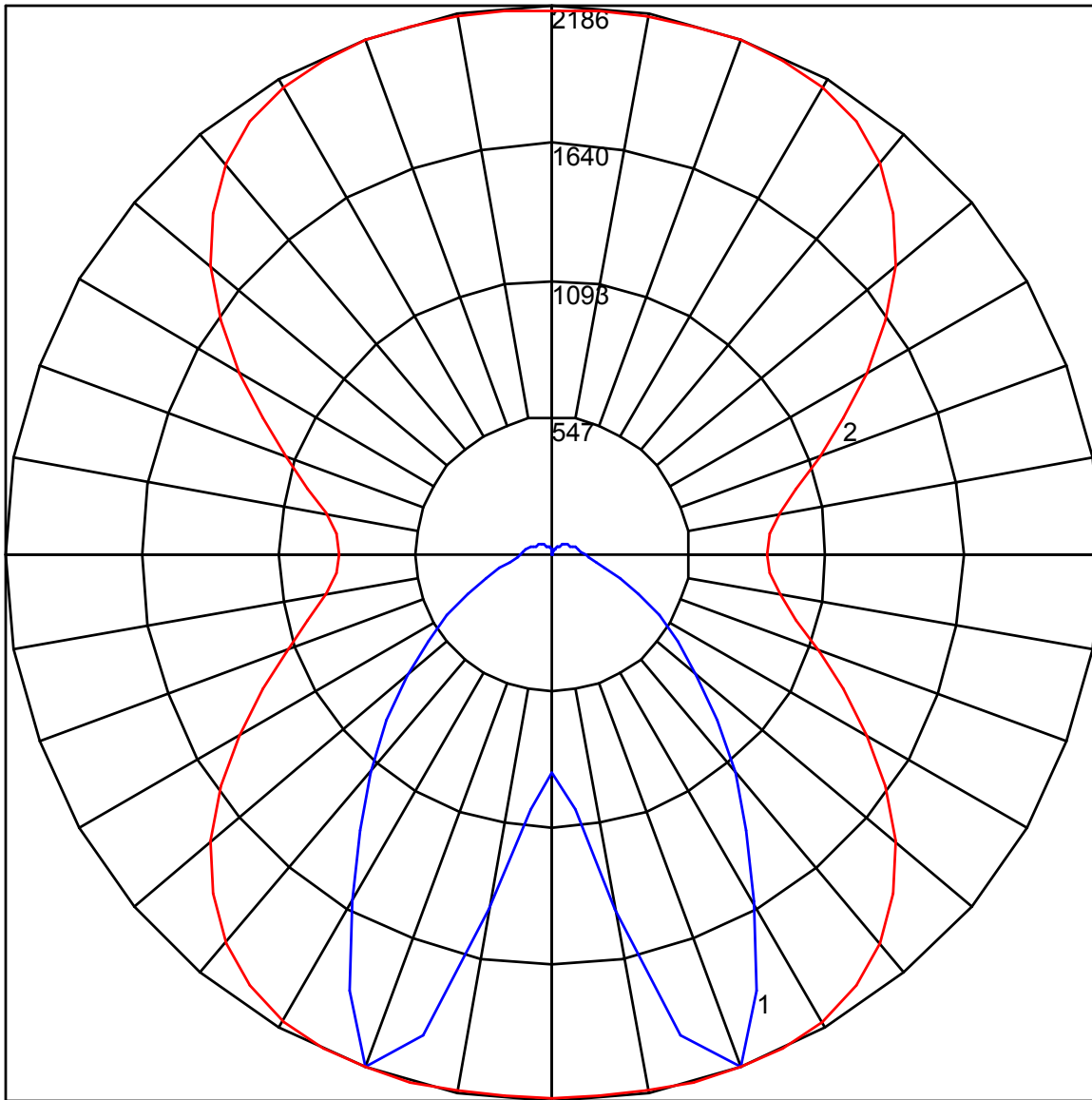
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2186.1 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.)