



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PSTD-REG1-LED4-MO-04-AWL-D1R.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L121401602
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 12/9/2014
 [MANUFAC] PRUDENTIAL LIGHTING
 [LUMCAT] Bio-PSTD-REG1-LED4-MO-04-AWL-D1R
 [LUMINAIRE] 6"L. X 50"W. X 6-1/2"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [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	2209
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	28
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.66
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.06 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4997	8213	5027
55	2644	4795	4752
65	1301	2596	4179
75	339	930	3116
85	244	314	1871

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	682.06	682.06	682.06	682.06	682.06	682.06	682.06	682.06	682.06	682.06
5	883.06	881.72	878.37	873.01	866.31	858.27	848.22	836.83	824.10	810.70
10	1197.29	1193.27	1183.89	1165.80	1143.02	1116.22	1085.40	1049.89	1011.03	972.17
15	1619.39	1612.02	1594.60	1565.79	1530.28	1482.71	1425.09	1356.08	1279.70	1199.97
20	1833.12	1832.45	1825.75	1816.37	1800.29	1771.48	1729.94	1664.28	1576.51	1467.30
25	1641.50	1645.52	1656.24	1680.36	1703.81	1726.59	1746.69	1746.69	1721.90	1660.26
30	1268.98	1274.34	1289.08	1317.89	1358.09	1411.69	1475.34	1545.02	1603.31	1636.14
35	968.15	971.50	982.22	1002.99	1034.48	1077.36	1134.31	1209.35	1302.48	1400.97
40	726.95	729.63	738.34	753.75	778.54	811.37	854.92	913.21	991.60	1090.76
45	512.55	513.89	521.93	536.67	559.45	588.26	625.11	671.34	732.31	812.04
50	345.72	347.06	352.42	363.81	379.89	402.00	430.81	469.67	519.25	582.23
55	234.50	235.17	239.19	247.23	257.28	272.69	292.79	320.26	357.11	404.68
60	158.12	158.79	162.14	166.83	174.20	184.25	198.32	217.08	243.21	277.38
65	93.80	94.47	97.15	99.83	105.86	112.56	118.59	134.67	151.42	174.87
70	40.20	40.87	43.55	46.90	51.59	57.62	64.32	73.03	83.75	99.16
75	18.09	18.09	18.76	19.43	20.77	22.11	24.79	28.81	35.51	44.89
80	8.04	8.04	8.71	8.71	8.71	8.71	9.38	9.38	10.05	13.40
85	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.71	8.71	8.71
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	95
0	682.06	682.06	682.06	682.06	682.06	682.06	682.06	682.06	682.06	682.06
5	796.63	781.89	766.48	750.40	734.32	718.24	704.17	689.43	676.03	663.30
10	931.97	892.44	853.58	816.73	781.89	748.39	718.91	690.77	664.64	641.19
15	1117.56	1036.49	960.78	891.77	828.79	773.85	726.95	685.41	647.22	613.72
20	1346.03	1217.39	1092.10	978.87	879.04	795.29	728.96	673.35	623.77	582.23
25	1553.06	1404.99	1237.49	1075.35	930.63	813.38	724.94	654.59	596.30	547.39
30	1617.38	1524.92	1362.11	1169.82	982.22	826.78	714.22	630.47	563.47	510.54
35	1480.03	1494.77	1407.00	1230.12	1021.08	834.15	697.47	600.32	526.62	471.01
40	1205.33	1305.83	1325.93	1217.39	1023.76	826.11	672.68	565.48	486.42	430.14
45	915.89	1036.49	1128.28	1110.86	968.15	787.92	633.82	522.60	442.87	387.93
50	665.31	771.17	881.05	927.95	849.56	708.19	575.53	470.34	393.96	343.04
55	469.00	554.09	652.58	722.26	693.45	595.63	494.46	408.03	341.70	297.48
60	324.28	388.60	467.66	536.00	536.00	472.35	402.00	339.02	286.76	251.92

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CANDELA TABULATION - (Cont.)

65	207.03	250.58	306.19	359.79	373.86	339.02	296.14	257.28	223.78	200.33
70	111.89	148.74	185.59	221.77	235.84	221.77	198.99	178.89	161.47	149.41
75	56.95	74.37	96.48	118.59	129.98	126.63	118.59	110.55	104.52	101.17
80	19.43	24.79	36.18	47.57	54.94	56.95	56.95	56.95	57.62	58.96
85	8.71	8.71	8.71	9.38	9.38	14.07	18.76	20.77	23.45	28.14
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.71
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0	682.06	682.06	682.06	682.06	682.06	682.06	682.06	682.06	682.06	682.06
5	651.24	639.18	628.46	618.41	609.70	600.99	592.28	584.91	578.21	572.18
10	619.75	598.98	580.89	564.14	549.40	535.33	521.93	510.54	500.49	491.11
15	584.24	557.44	533.32	511.88	492.45	474.36	458.95	444.88	433.49	422.77
20	546.72	515.23	486.42	461.63	440.19	420.76	404.68	391.95	382.57	374.53
25	507.86	472.35	441.53	416.07	393.96	377.21	364.48	355.10	348.40	343.71
30	467.66	430.81	399.99	375.20	357.11	343.71	334.33	328.97	326.29	326.29
35	427.46	391.28	361.80	341.03	326.96	317.58	312.22	310.88	312.22	315.57
40	387.26	353.09	327.63	311.55	300.83	295.47	294.13	296.14	300.83	306.86
45	347.73	317.58	297.48	284.75	278.05	275.37	276.71	281.40	288.10	296.81
50	307.53	282.74	267.33	258.62	254.60	254.60	257.95	263.98	272.02	279.39
55	268.00	248.57	237.85	232.49	231.15	232.49	237.18	244.55	251.25	256.61
60	229.14	215.74	209.04	206.36	206.36	209.04	215.07	221.77	227.80	231.82
65	184.92	177.55	174.87	174.87	176.88	181.57	186.93	193.63	198.99	201.67
70	141.37	139.36	139.36	142.04	145.39	150.75	156.78	162.81	167.50	170.18
75	99.83	101.17	104.52	108.54	113.90	119.26	125.29	129.31	136.01	138.69
80	62.31	67.00	72.36	78.39	83.75	90.45	96.48	102.51	107.20	110.55
85	33.50	39.53	46.23	52.26	58.29	64.32	69.01	73.70	77.72	81.07
90	10.72	16.08	22.78	26.13	30.82	35.51	39.53	44.22	47.57	50.92
95	0.00	0.00	0.00	0.00	0.00	0.00	9.38	13.40	17.42	19.43
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	682.06	682.06	682.06	682.06	682.06	682.06	682.06
5	567.49	562.80	558.78	556.10	553.42	553.42	552.75
10	483.07	477.04	471.01	467.66	464.31	462.97	462.30
15	414.73	408.03	402.67	398.65	396.64	394.63	394.63
20	368.50	364.48	361.13	358.45	357.11	356.44	356.44
25	341.03	340.36	339.69	340.36	341.03	341.03	341.70
30	327.63	329.64	332.32	335.00	337.01	338.35	339.02
35	320.26	325.62	330.31	335.00	337.68	339.69	341.03
40	314.23	321.60	326.96	330.98	332.32	334.33	334.33
45	304.18	308.87	311.55	312.22	312.22	312.22	311.55
50	284.08	286.09	285.42	283.41	281.40	280.06	279.39
55	258.62	258.62	255.94	251.92	249.24	247.23	246.56
60	232.49	230.48	226.46	222.44	219.76	218.42	217.75
65	201.67	198.99	195.64	192.96	190.95	190.28	190.28
70	170.18	168.17	166.83	165.49	164.82	164.15	164.15
75	140.03	140.03	140.03	140.03	140.70	140.70	140.70
80	111.89	113.23	115.24	115.91	116.58	117.25	117.92
85	83.75	85.76	88.44	89.78	91.12	91.79	91.79
90	54.27	56.28	58.96	60.30	61.64	62.31	62.98
95	21.44	24.12	25.46	26.80	28.14	28.81	28.81
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	302.45	N.A.	13.70
0-30	703.91	N.A.	31.90
0-40	1153.85	N.A.	52.20
0-60	1857.97	N.A.	84.10
0-80	2156.6	N.A.	97.60
0-90	2199.73	N.A.	99.60
10-90	2131.68	N.A.	96.50
20-40	851.40	N.A.	38.50
20-50	1252.83	N.A.	56.70
40-70	900.80	N.A.	40.80
60-80	298.63	N.A.	13.50
70-80	101.94	N.A.	4.60
80-90	43.14	N.A.	2.00
90-110	8.93	N.A.	0.40
90-120	8.93	N.A.	0.40
90-130	8.93	N.A.	0.40
90-150	8.93	N.A.	0.40
90-180	8.93	N.A.	0.40
110-180	0.00	N.A.	0.00
0-180	2208.66	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.06
10-20	234.39
20-30	401.46
30-40	449.94
40-50	401.43
50-60	302.69
60-70	196.69
70-80	101.94
80-90	43.14
90-100	8.93
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

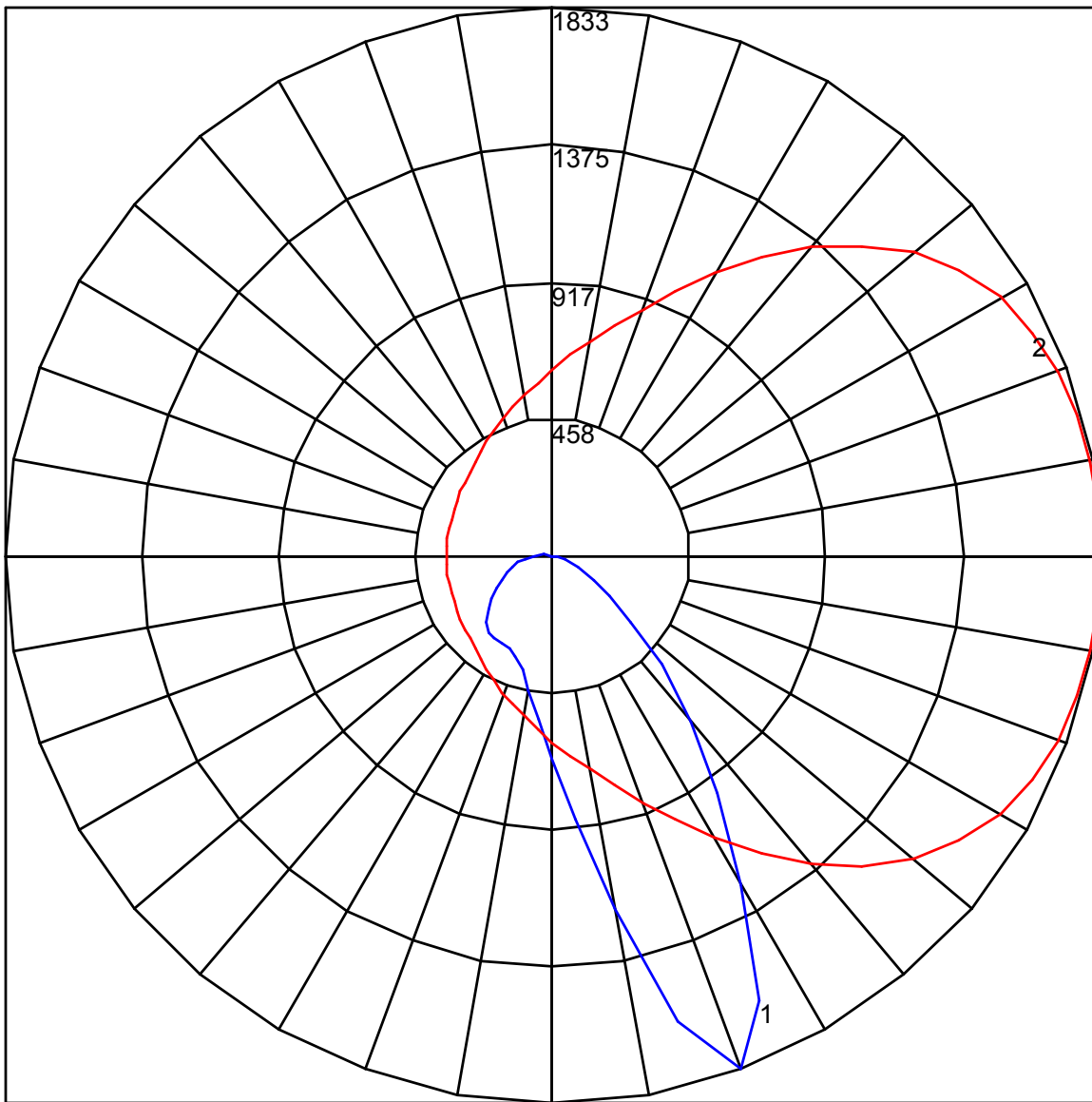
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	75	68	90	81	74	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	53	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 1833.12 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)