



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PSTD-REG1-LED4-HO-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-HO-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	3593
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	48
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	8129	13361	8178
55	4302	7801	7730
65	2116	4224	6799
75	552	1513	5069
85	397	511	3044

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62
5	1436.62	1434.44	1428.99	1420.27	1409.37	1396.29	1379.94	1361.41	1340.70	1318.90
10	1947.83	1941.29	1926.03	1896.60	1859.54	1815.94	1765.80	1708.03	1644.81	1581.59
15	2634.53	2622.54	2594.20	2547.33	2489.56	2412.17	2318.43	2206.16	2081.90	1952.19
20	2982.24	2981.15	2970.25	2954.99	2928.83	2881.96	2814.38	2707.56	2564.77	2387.10
25	2670.50	2677.04	2694.48	2733.72	2771.87	2808.93	2841.63	2841.63	2801.30	2701.02
30	2064.46	2073.18	2097.16	2144.03	2209.43	2296.63	2400.18	2513.54	2608.37	2661.78
35	1575.05	1580.50	1597.94	1631.73	1682.96	1752.72	1845.37	1967.45	2118.96	2279.19
40	1182.65	1187.01	1201.18	1226.25	1266.58	1319.99	1390.84	1485.67	1613.20	1774.52
45	833.85	836.03	849.11	873.09	910.15	957.02	1016.97	1092.18	1191.37	1321.08
50	562.44	564.62	573.34	591.87	618.03	654.00	700.87	764.09	844.75	947.21
55	381.50	382.59	389.13	402.21	418.56	443.63	476.33	521.02	580.97	658.36
60	257.24	258.33	263.78	271.41	283.40	299.75	322.64	353.16	395.67	451.26
65	152.60	153.69	158.05	162.41	172.22	183.12	192.93	219.09	246.34	284.49
70	65.40	66.49	70.85	76.30	83.93	93.74	104.64	118.81	136.25	161.32
75	29.43	29.43	30.52	31.61	33.79	35.97	40.33	46.87	57.77	73.03
80	13.08	13.08	14.17	14.17	14.17	14.17	15.26	15.26	16.35	21.80
85	13.08	13.08	13.08	13.08	13.08	13.08	13.08	14.17	14.17	14.17
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	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62
5	1296.01	1272.03	1246.96	1220.80	1194.64	1168.48	1145.59	1121.61	1099.81	1079.10
10	1516.19	1451.88	1388.66	1328.71	1272.03	1217.53	1169.57	1123.79	1081.28	1043.13
15	1818.12	1686.23	1563.06	1450.79	1348.33	1258.95	1182.65	1115.07	1052.94	998.44
20	2189.81	1980.53	1776.70	1592.49	1430.08	1293.83	1185.92	1095.45	1014.79	947.21
25	2526.62	2285.73	2013.23	1749.45	1514.01	1323.26	1179.38	1064.93	970.10	890.53
30	2631.26	2480.84	2215.97	1903.14	1597.94	1345.06	1161.94	1025.69	916.69	830.58
35	2407.81	2431.79	2289.00	2001.24	1661.16	1357.05	1134.69	976.64	856.74	766.27
40	1960.91	2124.41	2157.11	1980.53	1665.52	1343.97	1094.36	919.96	791.34	699.78
45	1490.03	1686.23	1835.56	1807.22	1575.05	1281.84	1031.14	850.20	720.49	631.11
50	1082.37	1254.59	1433.35	1509.65	1382.12	1152.13	936.31	765.18	640.92	558.08
55	763.00	901.43	1061.66	1175.02	1128.15	969.01	804.42	663.81	555.90	483.96
60	527.56	632.20	760.82	872.00	872.00	768.45	654.00	551.54	466.52	409.84

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CANDELA TABULATION - (Cont.)

65	336.81	407.66	498.13	585.33	608.22	551.54	481.78	418.56	364.06	325.91
70	182.03	241.98	301.93	360.79	383.68	360.79	323.73	291.03	262.69	243.07
75	92.65	120.99	156.96	192.93	211.46	206.01	192.93	179.85	170.04	164.59
80	31.61	40.33	58.86	77.39	89.38	92.65	92.65	92.65	93.74	95.92
85	14.17	14.17	14.17	15.26	15.26	22.89	30.52	33.79	38.15	45.78
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.17
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	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62
5	1059.48	1039.86	1022.42	1006.07	991.90	977.73	963.56	951.57	940.67	930.86
10	1008.25	974.46	945.03	917.78	893.80	870.91	849.11	830.58	814.23	798.97
15	950.48	906.88	867.64	832.76	801.15	771.72	746.65	723.76	705.23	687.79
20	889.44	838.21	791.34	751.01	716.13	684.52	658.36	637.65	622.39	609.31
25	826.22	768.45	718.31	676.89	640.92	613.67	592.96	577.70	566.80	559.17
30	760.82	700.87	650.73	610.40	580.97	559.17	543.91	535.19	530.83	530.83
35	695.42	636.56	588.60	554.81	531.92	516.66	507.94	505.76	507.94	513.39
40	630.02	574.43	533.01	506.85	489.41	480.69	478.51	481.78	489.41	499.22
45	565.71	516.66	483.96	463.25	452.35	447.99	450.17	457.80	468.70	482.87
50	500.31	459.98	434.91	420.74	414.20	414.20	419.65	429.46	442.54	454.53
55	436.00	404.39	386.95	378.23	376.05	378.23	385.86	397.85	408.75	417.47
60	372.78	350.98	340.08	335.72	335.72	340.08	349.89	360.79	370.60	377.14
65	300.84	288.85	284.49	284.49	287.76	295.39	304.11	315.01	323.73	328.09
70	229.99	226.72	226.72	231.08	236.53	245.25	255.06	264.87	272.50	276.86
75	162.41	164.59	170.04	176.58	185.30	194.02	203.83	210.37	221.27	225.63
80	101.37	109.00	117.72	127.53	136.25	147.15	156.96	166.77	174.40	179.85
85	54.50	64.31	75.21	85.02	94.83	104.64	112.27	119.90	126.44	131.89
90	17.44	26.16	37.06	42.51	50.14	57.77	64.31	71.94	77.39	82.84
95	0.00	0.00	0.00	0.00	0.00	0.00	15.26	21.80	28.34	31.61
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	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62	1109.62
5	923.23	915.60	909.06	904.70	900.34	900.34	899.25
10	785.89	776.08	766.27	760.82	755.37	753.19	752.10
15	674.71	663.81	655.09	648.55	645.28	642.01	642.01
20	599.50	592.96	587.51	583.15	580.97	579.88	579.88
25	554.81	553.72	552.63	553.72	554.81	554.81	555.90
30	533.01	536.28	540.64	545.00	548.27	550.45	551.54
35	521.02	529.74	537.37	545.00	549.36	552.63	554.81
40	511.21	523.20	531.92	538.46	540.64	543.91	543.91
45	494.86	502.49	506.85	507.94	507.94	507.94	506.85
50	462.16	465.43	464.34	461.07	457.80	455.62	454.53
55	420.74	420.74	416.38	409.84	405.48	402.21	401.12
60	378.23	374.96	368.42	361.88	357.52	355.34	354.25
65	328.09	323.73	318.28	313.92	310.65	309.56	309.56
70	276.86	273.59	271.41	269.23	268.14	267.05	267.05
75	227.81	227.81	227.81	227.81	228.90	228.90	228.90
80	182.03	184.21	187.48	188.57	189.66	190.75	191.84
85	136.25	139.52	143.88	146.06	148.24	149.33	149.33
90	88.29	91.56	95.92	98.10	100.28	101.37	102.46
95	34.88	39.24	41.42	43.60	45.78	46.87	46.87
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	492.04	N.A.	13.70
0-30	1145.17	N.A.	31.90
0-40	1877.16	N.A.	52.20
0-60	3022.67	N.A.	84.10
0-80	3508.49	N.A.	97.60
0-90	3578.67	N.A.	99.60
10-90	3467.95	N.A.	96.50
20-40	1385.12	N.A.	38.50
20-50	2038.19	N.A.	56.70
40-70	1465.49	N.A.	40.80
60-80	485.83	N.A.	13.50
70-80	165.84	N.A.	4.60
80-90	70.18	N.A.	2.00
90-110	14.53	N.A.	0.40
90-120	14.53	N.A.	0.40
90-130	14.53	N.A.	0.40
90-150	14.53	N.A.	0.40
90-180	14.53	N.A.	0.40
110-180	0.00	N.A.	0.00
0-180	3593.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.72
10-20	381.32
20-30	653.13
30-40	731.99
40-50	653.07
50-60	492.44
60-70	319.98
70-80	165.84
80-90	70.18
90-100	14.53
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

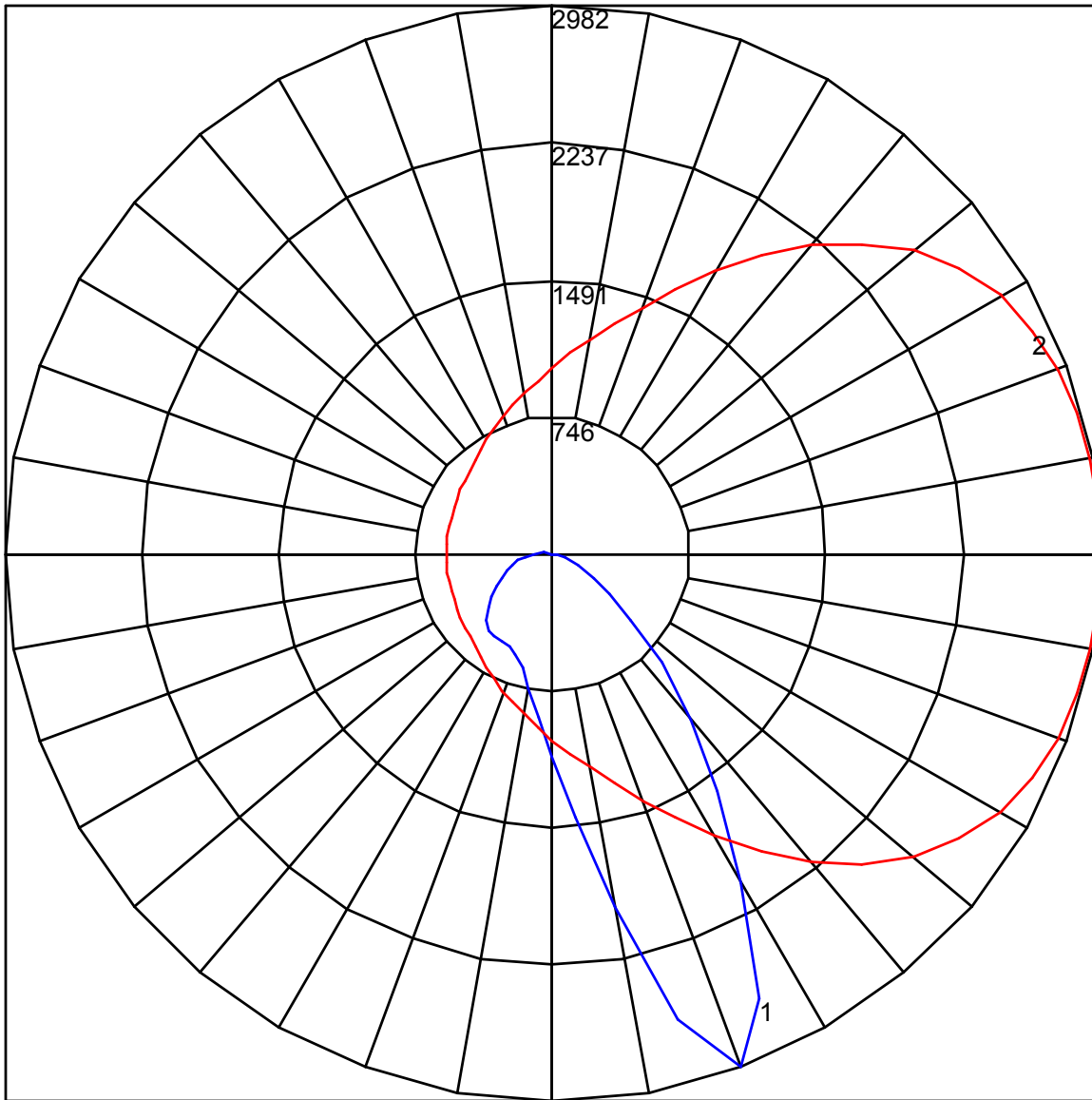
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	58	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	71	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 = 2982.24 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.)