



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-STD-FLSH-LED3HO-04-AWL-D1W.IES

DESCRIPTION INFORMATION (From Photometric File)

[IESNA:]LM-63-2002

[TEST:]32216

[TESTLAB:]LIGHTING SCIENCES, INC.

[ISSUE DATE:] 9/27/2013

[MANUFACTURER:]PRUDENTIAL LIGHTING - 4' LED WALL WASH

[LUMEN CATEGORY:]BIO-STD-FLSH-LED3HO-04-AWW-D1W

[LUMINAIRE:]WITH WHITE INTERIOR AND PRISMATIC PLASTIC FLAT LENS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3825
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.96
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.58
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16970	20187	8985
55	13363	15059	8512
65	10407	11289	7335
75	7377	8027	5488
85	3253	3836	2759

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	1107.24	1107.24	1107.24	1107.24	1107.24	1107.24	1107.24	1107.24	1107.24	1107.24
2.5	1206.12	1201.56	1181.28	1144.32	1107.48	1058.76	1026.12	998.76	987.24	998.76
5.0	1323.72	1309.08	1260.72	1184.40	1104.84	1015.32	952.44	907.08	889.92	907.08
7.5	1459.08	1427.76	1343.76	1223.76	1099.92	973.08	884.16	827.04	807.60	827.04
10.0	1632.96	1576.20	1436.04	1262.88	1093.68	931.80	823.68	757.68	735.48	757.68
12.5	1867.32	1770.84	1546.08	1300.92	1084.80	890.40	766.20	695.40	670.80	695.40
15.0	2166.96	2020.44	1674.12	1338.84	1074.24	849.36	712.80	638.04	612.48	638.04
17.5	2496.48	2307.96	1829.52	1375.56	1063.44	810.48	662.16	585.24	560.64	585.24
20.0	2777.88	2591.64	2011.08	1416.36	1048.44	768.48	614.88	538.80	516.48	538.80
22.5	2943.24	2811.36	2212.80	1454.16	1031.40	729.24	572.16	499.44	479.88	499.44
25.0	2921.04	2908.92	2414.52	1498.44	1012.80	691.32	533.88	466.68	450.12	466.68
27.5	2806.80	2868.72	2566.08	1545.12	993.36	654.72	498.84	439.32	425.64	439.32
30.0	2595.36	2708.28	2645.40	1592.64	969.48	618.24	467.52	416.64	405.60	416.64
32.5	2367.00	2488.44	2640.12	1638.12	944.40	582.72	439.32	396.96	387.36	396.96
35.0	2158.68	2264.88	2552.52	1680.84	917.04	548.16	415.08	379.08	369.72	379.08
37.5	1968.24	2055.60	2387.16	1715.04	886.80	516.36	393.12	362.04	351.12	362.04
40.0	1792.68	1864.08	2177.88	1732.68	854.04	486.12	373.32	345.12	331.44	345.12
42.5	1628.16	1689.36	1960.80	1727.16	818.28	457.32	354.24	326.64	310.44	326.64
45.0	1472.88	1524.60	1752.12	1691.04	779.88	429.24	336.24	307.08	288.60	307.08
47.5	1326.96	1371.36	1560.12	1632.84	738.96	402.00	318.12	286.92	267.48	286.92
50.0	1191.00	1226.52	1381.80	1543.56	694.92	375.00	300.60	266.16	246.96	266.16
52.5	1062.48	1091.64	1215.24	1427.04	648.72	349.08	281.64	245.64	228.12	245.64
55.0	940.80	964.80	1060.20	1290.24	599.28	322.80	262.20	225.60	210.36	225.60
57.5	826.68	848.52	921.72	1146.24	546.60	296.28	241.92	206.52	192.60	206.52
60.0	722.64	742.32	799.08	1000.56	491.76	269.16	220.44	187.32	175.08	187.32
62.5	628.32	644.52	687.24	858.48	435.96	241.32	198.48	168.12	157.32	168.12
65.0	539.88	553.08	585.60	722.64	380.52	213.60	177.24	149.16	139.92	149.16
67.5	454.80	465.84	490.56	595.44	326.28	186.84	155.76	130.56	122.88	130.56
70.0	374.04	384.96	403.80	481.20	273.36	160.08	134.04	112.32	105.84	112.32
72.5	300.60	310.80	325.56	381.60	222.24	133.20	111.84	94.44	89.16	94.44
75.0	234.36	243.12	255.00	294.36	174.36	106.44	89.76	76.44	72.24	76.44
77.5	174.24	181.44	190.92	218.40	130.80	80.64	68.64	58.80	55.80	58.80
80.0	120.48	125.88	132.84	151.44	91.92	56.76	49.08	42.24	40.44	42.24
82.5	72.84	76.68	82.20	93.84	57.72	35.88	31.68	27.60	26.64	27.60
85.0	34.80	37.32	41.04	48.00	29.52	18.72	17.16	15.36	14.76	15.36
87.5	9.96	11.16	12.96	16.56	9.84	6.12	6.00	6.12	6.00	6.12
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	1107.24	1107.24	1107.24	1107.24	1107.24	1107.24	1107.24
2.5	1026.12	1058.76	1107.48	1144.32	1181.28	1201.56	1206.12
5.0	952.44	1015.32	1104.84	1184.40	1260.72	1309.08	1323.72
7.5	884.16	973.08	1099.92	1223.76	1343.76	1427.76	1459.08
10.0	823.68	931.80	1093.68	1262.88	1436.04	1576.20	1632.96
12.5	766.20	890.40	1084.80	1300.92	1546.08	1770.84	1867.32
15.0	712.80	849.36	1074.24	1338.84	1674.12	2020.44	2166.96
17.5	662.16	810.48	1063.44	1375.56	1829.52	2307.96	2496.48
20.0	614.88	768.48	1048.44	1416.36	2011.08	2591.64	2777.88
22.5	572.16	729.24	1031.40	1454.16	2212.80	2811.36	2943.24
25.0	533.88	691.32	1012.80	1498.44	2414.52	2908.92	2921.04
27.5	498.84	654.72	993.36	1545.12	2566.08	2868.72	2806.80
30.0	467.52	618.24	969.48	1592.64	2645.40	2708.28	2595.36

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32.5	439.32	582.72	944.40	1638.12	2640.12	2488.44	2367.00
35.0	415.08	548.16	917.04	1680.84	2552.52	2264.88	2158.68
37.5	393.12	516.36	886.80	1715.04	2387.16	2055.60	1968.24
40.0	373.32	486.12	854.04	1732.68	2177.88	1864.08	1792.68
42.5	354.24	457.32	818.28	1727.16	1960.80	1689.36	1628.16
45.0	336.24	429.24	779.88	1691.04	1752.12	1524.60	1472.88
47.5	318.12	402.00	738.96	1632.84	1560.12	1371.36	1326.96
50.0	300.60	375.00	694.92	1543.56	1381.80	1226.52	1191.00
52.5	281.64	349.08	648.72	1427.04	1215.24	1091.64	1062.48
55.0	262.20	322.80	599.28	1290.24	1060.20	964.80	940.80
57.5	241.92	296.28	546.60	1146.24	921.72	848.52	826.68
60.0	220.44	269.16	491.76	1000.56	799.08	742.32	722.64
62.5	198.48	241.32	435.96	858.48	687.24	644.52	628.32
65.0	177.24	213.60	380.52	722.64	585.60	553.08	539.88
67.5	155.76	186.84	326.28	595.44	490.56	465.84	454.80
70.0	134.04	160.08	273.36	481.20	403.80	384.96	374.04
72.5	111.84	133.20	222.24	381.60	325.56	310.80	300.60
75.0	89.76	106.44	174.36	294.36	255.00	243.12	234.36
77.5	68.64	80.64	130.80	218.40	190.92	181.44	174.24
80.0	49.08	56.76	91.92	151.44	132.84	125.88	120.48
82.5	31.68	35.88	57.72	93.84	82.20	76.68	72.84
85.0	17.16	18.72	29.52	48.00	41.04	37.32	34.80
87.5	6.00	6.12	9.84	16.56	12.96	11.16	9.96
90.0	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	455.07	N.A.	11.90
0-30	1094.83	N.A.	28.60
0-40	1875.23	N.A.	49.00
0-60	3211.2	N.A.	84.00
0-80	3786.16	N.A.	99.00
0-90	3824.54	N.A.	100.00
10-90	3718.18	N.A.	97.20
20-40	1420.16	N.A.	37.10
20-50	2162.72	N.A.	56.50
40-70	1724.12	N.A.	45.10
60-80	574.96	N.A.	15.00
70-80	186.81	N.A.	4.90
80-90	38.38	N.A.	1.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3824.54	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.37
10-20	348.70
20-30	639.76
30-40	780.40
40-50	742.56
50-60	593.41
60-70	388.15
70-80	186.81
80-90	38.38
90-100	0.00
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

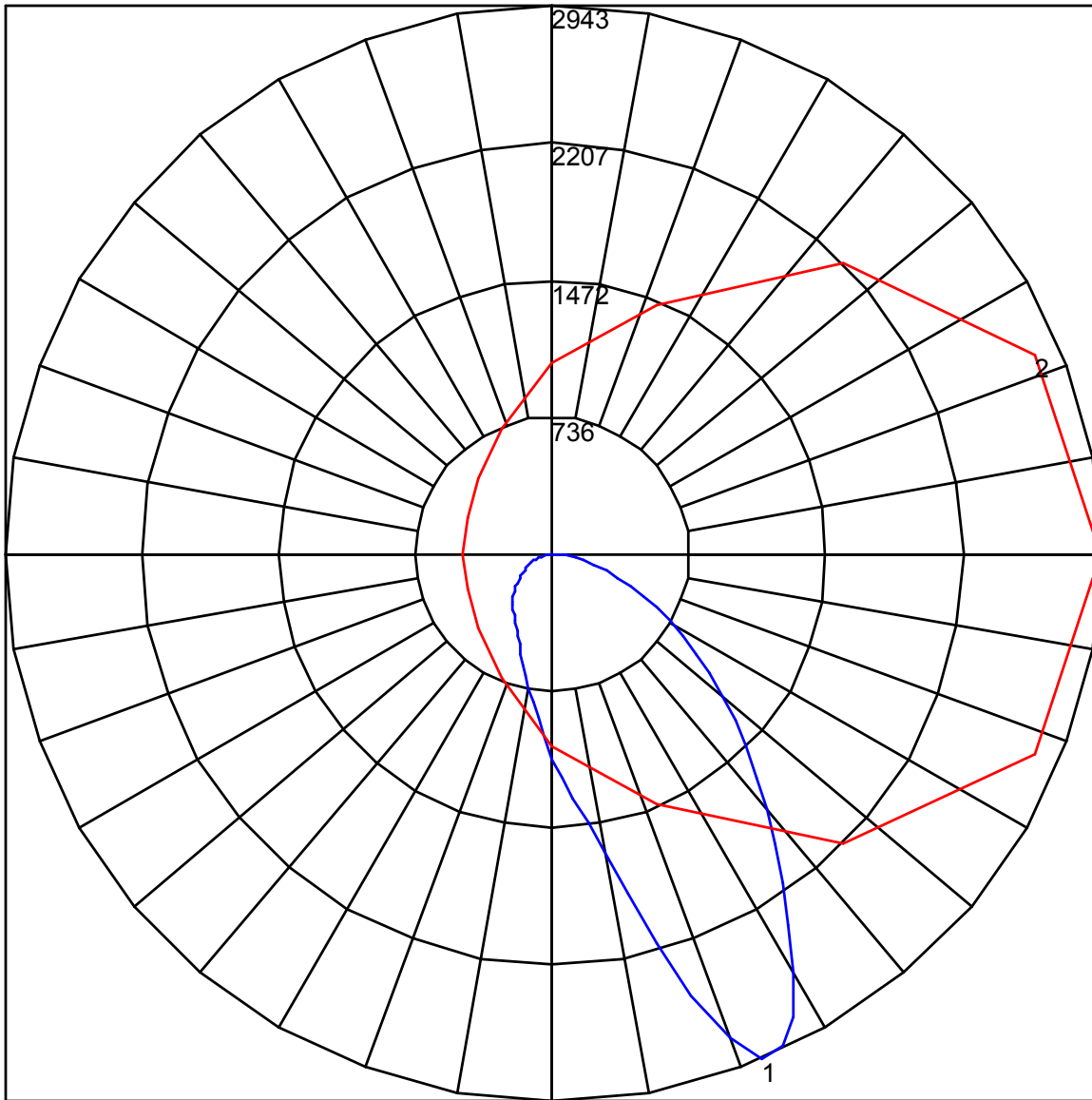
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	92	86	81	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 2943.24 Located At Horizontal Angle = 0, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)