



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PSTD-FLSH-LED3-SO-04-AWL-D1R.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]32216

[TESTLAB]

[ISSUE DATE]

[MANUFAC]PRUDENTIAL LIGHTING - 4' LED WALL WASH

[LUMCAT]BIO-STD-FLSH-LED3SO-04-AWW-D1R

[LUMINAIRE]WITH WHITE INTERIOR AND PRISMATIC PLASTIC FLAT LENS

[LAMP]

[OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3187
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	33.4
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	14141	16822	7488
55	11136	12549	7093
65	8673	9407	6113
75	6147	6689	4574
85	2711	3197	2299

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7
2.5	1005.1	1001.3	984.4	953.6	922.9	882.3	855.1	832.3	822.7	832.3
5.0	1103.1	1090.9	1050.6	987.0	920.7	846.1	793.7	755.9	741.6	755.9
7.5	1215.9	1189.8	1119.8	1019.8	916.6	810.9	736.8	689.2	673.0	689.2
10.0	1360.8	1313.5	1196.7	1052.4	911.4	776.5	686.4	631.4	612.9	631.4
12.5	1556.1	1475.7	1288.4	1084.1	904.0	742.0	638.5	579.5	559.0	579.5
15.0	1805.8	1683.7	1395.1	1115.7	895.2	707.8	594.0	531.7	510.4	531.7
17.5	2080.4	1923.3	1524.6	1146.3	886.2	675.4	551.8	487.7	467.2	487.7
20.0	2314.9	2159.7	1675.9	1180.3	873.7	640.4	512.4	449.0	430.4	449.0
22.5	2452.7	2342.8	1844.0	1211.8	859.5	607.7	476.8	416.2	399.9	416.2
25.0	2434.2	2424.1	2012.1	1248.7	844.0	576.1	444.9	388.9	375.1	388.9
27.5	2339.0	2390.6	2138.4	1287.6	827.8	545.6	415.7	366.1	354.7	366.1
30.0	2162.8	2256.9	2204.5	1327.2	807.9	515.2	389.6	347.2	338.0	347.2
32.5	1972.5	2073.7	2200.1	1365.1	787.0	485.6	366.1	330.8	322.8	330.8
35.0	1798.9	1887.4	2127.1	1400.7	764.2	456.8	345.9	315.9	308.1	315.9
37.5	1640.2	1713.0	1989.3	1429.2	739.0	430.3	327.6	301.7	292.6	301.7
40.0	1493.9	1553.4	1814.9	1443.9	711.7	405.1	311.1	287.6	276.2	287.6
42.5	1356.8	1407.8	1634.0	1439.3	681.9	381.1	295.2	272.2	258.7	272.2
45.0	1227.4	1270.5	1460.1	1409.2	649.9	357.7	280.2	255.9	240.5	255.9
47.5	1105.8	1142.8	1300.1	1360.7	615.8	335.0	265.1	239.1	222.9	239.1
50.0	992.5	1022.1	1151.5	1286.3	579.1	312.5	250.5	221.8	205.8	221.8
52.5	885.4	909.7	1012.7	1189.2	540.6	290.9	234.7	204.7	190.1	204.7
55.0	784.0	804.0	883.5	1075.2	499.4	269.0	218.5	188.0	175.3	188.0
57.5	688.9	707.1	768.1	955.2	455.5	246.9	201.6	172.1	160.5	172.1
60.0	602.2	618.6	665.9	833.8	409.8	224.3	183.7	156.1	145.9	156.1
62.5	523.6	537.1	572.7	715.4	363.3	201.1	165.4	140.1	131.1	140.1
65.0	449.9	460.9	488.0	602.2	317.1	178.0	147.7	124.3	116.6	124.3
67.5	379.0	388.2	408.8	496.2	271.9	155.7	129.8	108.8	102.4	108.8
70.0	311.7	320.8	336.5	401.0	227.8	133.4	111.7	93.6	88.2	93.6
72.5	250.5	259.0	271.3	318.0	185.2	111.0	93.2	78.7	74.3	78.7
75.0	195.3	202.6	212.5	245.3	145.3	88.7	74.8	63.7	60.2	63.7
77.5	145.2	151.2	159.1	182.0	109.0	67.2	57.2	49.0	46.5	49.0
80.0	100.4	104.9	110.7	126.2	76.6	47.3	40.9	35.2	33.7	35.2
82.5	60.7	63.9	68.5	78.2	48.1	29.9	26.4	23.0	22.2	23.0
85.0	29.0	31.1	34.2	40.0	24.6	15.6	14.3	12.8	12.3	12.8
87.5	8.3	9.3	10.8	13.8	8.2	5.1	5.0	5.1	5.0	5.1
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	922.7	922.7	922.7	922.7	922.7	922.7	922.7
2.5	855.1	882.3	922.9	953.6	984.4	1001.3	1005.1
5.0	793.7	846.1	920.7	987.0	1050.6	1090.9	1103.1
7.5	736.8	810.9	916.6	1019.8	1119.8	1189.8	1215.9
10.0	686.4	776.5	911.4	1052.4	1196.7	1313.5	1360.8
12.5	638.5	742.0	904.0	1084.1	1288.4	1475.7	1556.1
15.0	594.0	707.8	895.2	1115.7	1395.1	1683.7	1805.8
17.5	551.8	675.4	886.2	1146.3	1524.6	1923.3	2080.4
20.0	512.4	640.4	873.7	1180.3	1675.9	2159.7	2314.9
22.5	476.8	607.7	859.5	1211.8	1844.0	2342.8	2452.7
25.0	444.9	576.1	844.0	1248.7	2012.1	2424.1	2434.2
27.5	415.7	545.6	827.8	1287.6	2138.4	2390.6	2339.0
30.0	389.6	515.2	807.9	1327.2	2204.5	2256.9	2162.8

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CANDELA TABULATION - (Cont.)

32.5	366.1	485.6	787.0	1365.1	2200.1	2073.7	1972.5
35.0	345.9	456.8	764.2	1400.7	2127.1	1887.4	1798.9
37.5	327.6	430.3	739.0	1429.2	1989.3	1713.0	1640.2
40.0	311.1	405.1	711.7	1443.9	1814.9	1553.4	1493.9
42.5	295.2	381.1	681.9	1439.3	1634.0	1407.8	1356.8
45.0	280.2	357.7	649.9	1409.2	1460.1	1270.5	1227.4
47.5	265.1	335.0	615.8	1360.7	1300.1	1142.8	1105.8
50.0	250.5	312.5	579.1	1286.3	1151.5	1022.1	992.5
52.5	234.7	290.9	540.6	1189.2	1012.7	909.7	885.4
55.0	218.5	269.0	499.4	1075.2	883.5	804.0	784.0
57.5	201.6	246.9	455.5	955.2	768.1	707.1	688.9
60.0	183.7	224.3	409.8	833.8	665.9	618.6	602.2
62.5	165.4	201.1	363.3	715.4	572.7	537.1	523.6
65.0	147.7	178.0	317.1	602.2	488.0	460.9	449.9
67.5	129.8	155.7	271.9	496.2	408.8	388.2	379.0
70.0	111.7	133.4	227.8	401.0	336.5	320.8	311.7
72.5	93.2	111.0	185.2	318.0	271.3	259.0	250.5
75.0	74.8	88.7	145.3	245.3	212.5	202.6	195.3
77.5	57.2	67.2	109.0	182.0	159.1	151.2	145.2
80.0	40.9	47.3	76.6	126.2	110.7	104.9	100.4
82.5	26.4	29.9	48.1	78.2	68.5	63.9	60.7
85.0	14.3	15.6	24.6	40.0	34.2	31.1	29.0
87.5	5.0	5.1	8.2	13.8	10.8	9.3	8.3
90.0	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	379.22	N.A.	11.90
0-30	912.36	N.A.	28.60
0-40	1562.69	N.A.	49.00
0-60	2676.00	N.A.	84.00
0-80	3155.14	N.A.	99.00
0-90	3187.12	N.A.	100.00
10-90	3098.48	N.A.	97.20
20-40	1183.47	N.A.	37.10
20-50	1802.27	N.A.	56.50
40-70	1436.77	N.A.	45.10
60-80	479.14	N.A.	15.00
70-80	155.68	N.A.	4.90
80-90	31.98	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	3187.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.64
10-20	290.58
20-30	533.13
30-40	650.33
40-50	618.80
50-60	494.51
60-70	323.46
70-80	155.68
80-90	31.98
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

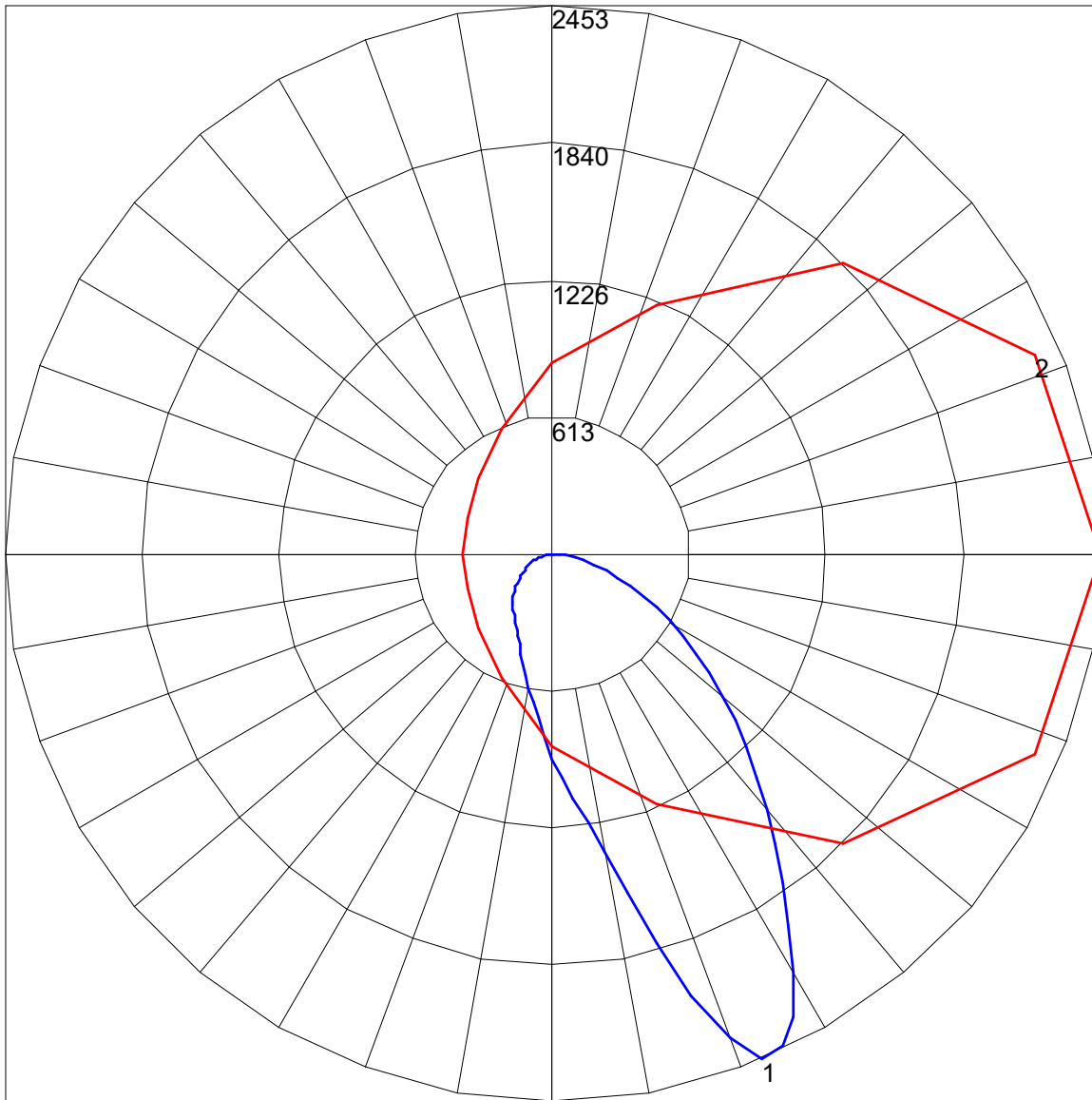
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	82	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	56	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	47	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 = 2452.7 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.)