



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PSTD-FLSH-LED3-HO-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-PSTD-FLSH-LED35-HO-04-AWW-D1R

[LUMINAIRE]WITH WHITE INTERIOR AND PRISMATIC PLASTIC FLAT LENS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3665
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	40
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	16263	19346	8611
55	12806	14431	8157
65	9974	10818	7030
75	7070	7692	5260
85	3117	3676	2644

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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	1061.105	1061.105	1061.105	1061.105	1061.105	1061.105	1061.105	1061.105	1061.105	1061.105
2.5	1155.865	1151.495	1132.060	1096.640	1061.335	1014.645	983.365	957.145	946.105	957.145
5.0	1268.565	1254.535	1208.190	1135.050	1058.805	973.015	912.755	869.285	852.840	869.285
7.5	1398.285	1368.270	1287.770	1172.770	1054.090	932.535	847.320	792.580	773.950	792.580
10.0	1564.920	1510.525	1376.205	1210.260	1048.110	892.975	789.360	726.110	704.835	726.110
12.5	1789.515	1697.055	1481.660	1246.715	1039.600	853.300	734.275	666.425	642.850	666.425
15.0	2076.670	1936.255	1604.365	1283.055	1029.480	813.970	683.100	611.455	586.960	611.455
17.5	2392.460	2211.795	1753.290	1318.245	1019.130	776.710	634.570	560.855	537.280	560.855
20.0	2662.135	2483.655	1927.285	1357.345	1004.755	736.460	589.260	516.350	494.960	516.350
22.5	2820.605	2694.220	2120.600	1393.570	988.425	698.855	548.320	478.630	459.885	478.630
25.0	2799.330	2787.715	2313.915	1436.005	970.600	662.515	511.635	447.235	431.365	447.235
27.5	2689.850	2749.190	2459.160	1480.740	951.970	627.440	478.055	421.015	407.905	421.015
30.0	2487.220	2595.435	2535.175	1526.280	929.085	592.480	448.040	399.280	388.700	399.280
32.5	2268.375	2384.755	2530.115	1569.865	905.050	558.440	421.015	380.420	371.220	380.420
35.0	2068.735	2170.510	2446.165	1610.805	878.830	525.320	397.785	363.285	354.315	363.285
37.5	1886.230	1969.950	2287.695	1643.580	849.850	494.845	376.740	346.955	336.490	346.955
40.0	1717.985	1786.410	2087.135	1660.485	818.455	465.865	357.765	330.740	317.630	330.740
42.5	1560.320	1618.970	1879.100	1655.195	784.185	438.265	339.480	313.030	297.505	313.030
45.0	1411.510	1461.075	1679.115	1620.580	747.385	411.355	322.230	294.285	276.575	294.285
47.5	1271.670	1314.220	1495.115	1564.805	708.170	385.250	304.865	274.965	256.335	274.965
50.0	1141.375	1175.415	1324.225	1479.245	665.965	359.375	288.075	255.070	236.670	255.070
52.5	1018.210	1046.155	1164.605	1367.580	621.690	334.535	269.905	235.405	218.615	235.405
55.0	901.600	924.600	1016.025	1236.480	574.310	309.350	251.275	216.200	201.595	216.200
57.5	792.235	813.165	883.315	1098.480	523.825	283.935	231.840	197.915	184.575	197.915
60.0	692.530	711.390	765.785	958.870	471.270	257.945	211.255	179.515	167.785	179.515
62.5	602.140	617.665	658.605	822.710	417.795	231.265	190.210	161.115	150.765	161.115
65.0	517.385	530.035	561.200	692.530	364.665	204.700	169.855	142.945	134.090	142.945
67.5	435.850	446.430	470.120	570.630	312.685	179.055	149.270	125.120	117.760	125.120
70.0	358.455	368.920	386.975	461.150	261.970	153.410	128.455	107.640	101.430	107.640
72.5	288.075	297.850	311.995	365.700	212.980	127.650	107.180	90.505	85.445	90.505
75.0	224.595	232.990	244.375	282.095	167.095	102.005	86.020	73.255	69.230	73.255
77.5	166.980	173.880	182.965	209.300	125.350	77.280	65.780	56.350	53.475	56.350
80.0	115.460	120.635	127.305	145.130	88.090	54.395	47.035	40.480	38.755	40.480
82.5	69.805	73.485	78.775	89.930	55.315	34.385	30.360	26.450	25.530	26.450
85.0	33.350	35.765	39.330	46.000	28.290	17.940	16.445	14.720	14.145	14.720
87.5	9.545	10.695	12.420	15.870	9.430	5.865	5.750	5.865	5.750	5.865
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	1061.105	1061.105	1061.105	1061.105	1061.105	1061.105	1061.105
2.5	983.365	1014.645	1061.335	1096.640	1132.060	1151.495	1155.865
5.0	912.755	973.015	1058.805	1135.050	1208.190	1254.535	1268.565
7.5	847.320	932.535	1054.090	1172.770	1287.770	1368.270	1398.285
10.0	789.360	892.975	1048.110	1210.260	1376.205	1510.525	1564.920
12.5	734.275	853.300	1039.600	1246.715	1481.660	1697.055	1789.515
15.0	683.100	813.970	1029.480	1283.055	1604.365	1936.255	2076.670
17.5	634.570	776.710	1019.130	1318.245	1753.290	2211.795	2392.460
20.0	589.260	736.460	1004.755	1357.345	1927.285	2483.655	2662.135
22.5	548.320	698.855	988.425	1393.570	2120.600	2694.220	2820.605
25.0	511.635	662.515	970.600	1436.005	2313.915	2787.715	2799.330
27.5	478.055	627.440	951.970	1480.740	2459.160	2749.190	2689.850
30.0	448.040	592.480	929.085	1526.280	2535.175	2595.435	2487.220

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CANDELA TABULATION - (Cont.)

32.5	421.015	558.440	905.050	1569.865	2530.115	2384.755	2268.375
35.0	397.785	525.320	878.830	1610.805	2446.165	2170.510	2068.735
37.5	376.740	494.845	849.850	1643.580	2287.695	1969.950	1886.230
40.0	357.765	465.865	818.455	1660.485	2087.135	1786.410	1717.985
42.5	339.480	438.265	784.185	1655.195	1879.100	1618.970	1560.320
45.0	322.230	411.355	747.385	1620.580	1679.115	1461.075	1411.510
47.5	304.865	385.250	708.170	1564.805	1495.115	1314.220	1271.670
50.0	288.075	359.375	665.965	1479.245	1324.225	1175.415	1141.375
52.5	269.905	334.535	621.690	1367.580	1164.605	1046.155	1018.210
55.0	251.275	309.350	574.310	1236.480	1016.025	924.600	901.600
57.5	231.840	283.935	523.825	1098.480	883.315	813.165	792.235
60.0	211.255	257.945	471.270	958.870	765.785	711.390	692.530
62.5	190.210	231.265	417.795	822.710	658.605	617.665	602.140
65.0	169.855	204.700	364.665	692.530	561.200	530.035	517.385
67.5	149.270	179.055	312.685	570.630	470.120	446.430	435.850
70.0	128.455	153.410	261.970	461.150	386.975	368.920	358.455
72.5	107.180	127.650	212.980	365.700	311.995	297.850	288.075
75.0	86.020	102.005	167.095	282.095	244.375	232.990	224.595
77.5	65.780	77.280	125.350	209.300	182.965	173.880	166.980
80.0	47.035	54.395	88.090	145.130	127.305	120.635	115.460
82.5	30.360	34.385	55.315	89.930	78.775	73.485	69.805
85.0	16.445	17.940	28.290	46.000	39.330	35.765	33.350
87.5	5.750	5.865	9.430	15.870	12.420	10.695	9.545
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	436.11	N.A.	11.90
0-30	1049.21	N.A.	28.60
0-40	1797.09	N.A.	49.00
0-60	3077.4	N.A.	84.00
0-80	3628.41	N.A.	99.00
0-90	3665.19	N.A.	100.00
10-90	3563.25	N.A.	97.20
20-40	1360.99	N.A.	37.10
20-50	2072.61	N.A.	56.50
40-70	1652.29	N.A.	45.10
60-80	551.01	N.A.	15.00
70-80	179.03	N.A.	4.90
80-90	36.78	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	3665.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.93
10-20	334.17
20-30	613.10
30-40	747.88
40-50	711.62
50-60	568.69
60-70	371.98
70-80	179.03
80-90	36.78
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

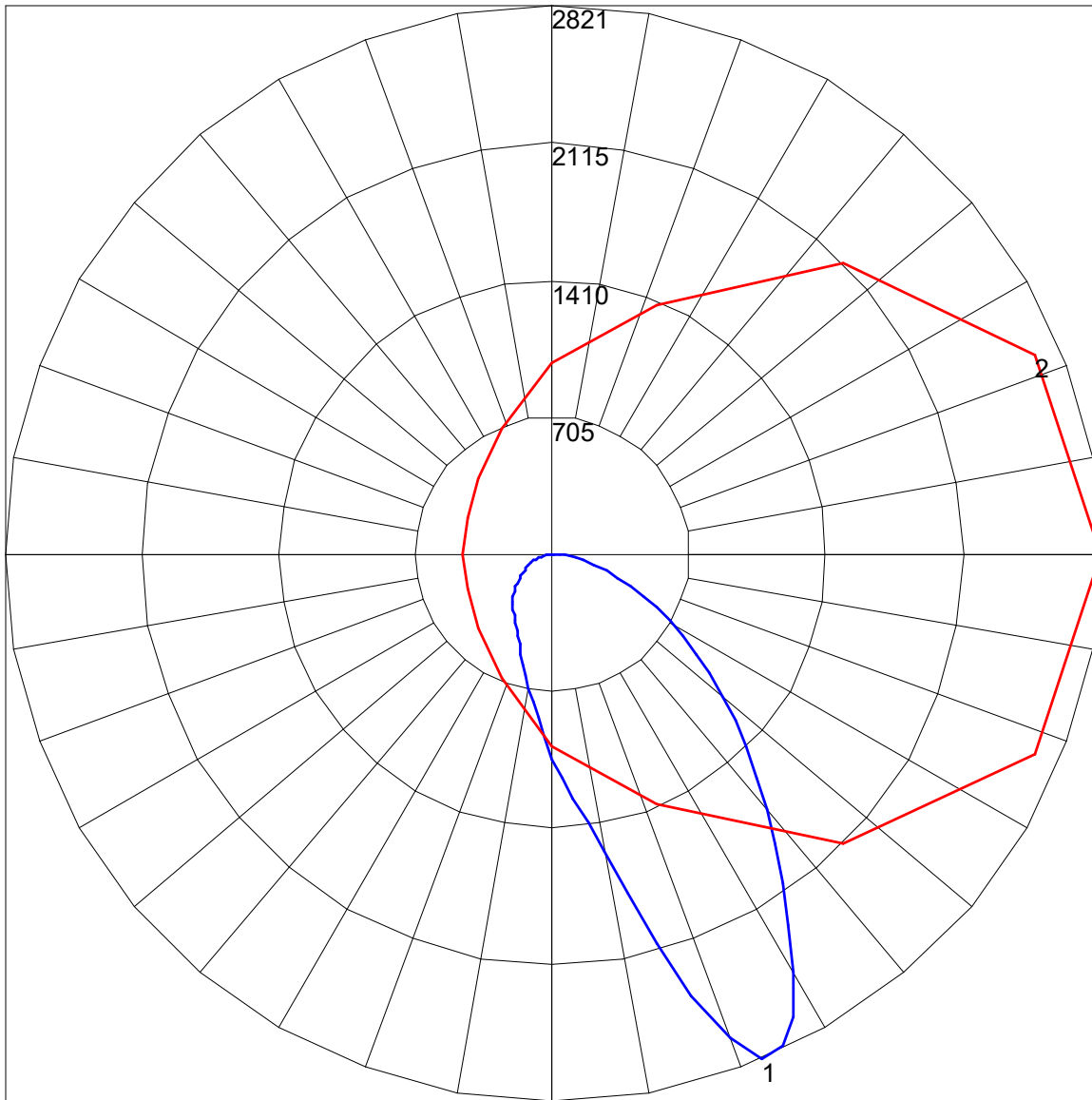
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2820.605 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.)