



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P43-STD-FLSH-LED3HO-04-AWW-D1W.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]32273  
 [TESTLAB]LIGHTING SCIENCES, INC.  
 [ISSUE DATE]10/22/2013  
 [MANUFACTURER]PRUDENTIAL LIGHTING - LED WALL WASH  
 [LUMCAT]P43-STD-FLSH-LED3HO-04-AWW-D1W

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3681
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.16
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.70
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19987	22681	8059
55	15662	17972	7704
65	11399	13595	6806
75	7475	9493	5372
85	4645	5326	3117

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**CANDELA TABULATION**

	<b>0.0</b>	<b>22.5</b>	<b>45.0</b>	<b>67.5</b>	<b>90.0</b>	<b>112.5</b>	<b>135.0</b>	<b>157.5</b>	<b>180.0</b>	<b>202.5</b>
<b>0.0</b>	941.64	941.64	941.64	941.64	941.64	941.64	941.64	941.64	941.64	941.64
<b>2.5</b>	1041.72	1038.72	1015.80	976.80	945.96	890.64	859.92	835.32	824.28	835.32
<b>5.0</b>	1175.28	1163.04	1104.48	1019.64	943.32	850.08	792.60	753.72	738.12	753.72
<b>7.5</b>	1333.80	1304.52	1202.04	1063.56	938.64	811.20	732.72	684.84	668.16	684.84
<b>10.0</b>	1520.52	1468.92	1311.48	1107.96	933.24	775.20	680.40	627.00	609.96	627.00
<b>12.5</b>	1735.56	1656.84	1433.76	1156.68	927.84	739.08	633.72	578.64	561.72	578.64
<b>15.0</b>	1965.60	1857.84	1568.28	1200.00	915.36	702.48	592.32	538.44	522.12	538.44
<b>17.5</b>	2181.96	2058.00	1705.92	1244.40	903.12	668.64	556.20	504.96	490.08	504.96
<b>20.0</b>	2359.68	2235.60	1840.68	1289.04	890.04	636.84	524.88	477.12	462.72	477.12
<b>22.5</b>	2488.44	2379.00	1971.36	1333.56	877.44	607.08	498.96	454.80	442.32	454.80
<b>25.0</b>	2562.72	2478.00	2090.28	1376.04	858.36	579.48	474.12	434.64	423.36	434.64
<b>27.5</b>	2578.80	2526.84	2187.00	1413.84	839.76	553.08	453.48	417.00	407.88	417.00
<b>30.0</b>	2534.40	2517.72	2254.92	1449.84	819.24	527.52	433.92	400.80	393.96	400.80
<b>32.5</b>	2432.04	2449.68	2277.36	1481.04	796.44	503.52	414.72	387.48	380.40	387.48
<b>35.0</b>	2290.44	2334.72	2272.44	1503.12	772.44	480.72	398.40	374.40	367.32	374.40
<b>37.5</b>	2127.36	2182.44	2219.64	1516.92	747.36	459.60	382.92	360.96	353.88	360.96
<b>40.0</b>	1959.24	2014.92	2129.64	1521.00	719.64	438.36	366.36	346.80	339.72	346.80
<b>42.5</b>	1793.16	1847.16	2002.44	1511.16	689.40	418.08	351.00	332.28	324.60	332.28
<b>45.0</b>	1629.60	1680.00	1849.32	1485.84	657.12	397.56	335.28	316.32	309.36	316.32
<b>47.5</b>	1468.80	1520.52	1682.88	1442.76	623.52	375.96	318.00	300.24	291.96	300.24
<b>50.0</b>	1316.40	1362.72	1515.36	1381.32	588.00	354.24	300.96	283.32	273.84	283.32
<b>52.5</b>	1171.92	1211.52	1348.80	1300.08	550.08	331.20	282.60	265.56	256.32	265.56
<b>55.0</b>	1035.84	1068.48	1188.60	1200.24	509.52	307.32	263.76	247.20	238.56	247.20
<b>57.5</b>	904.80	935.88	1039.44	1085.76	466.32	282.72	243.72	228.48	219.96	228.48
<b>60.0</b>	781.32	815.28	901.20	962.04	421.32	257.40	222.84	208.92	201.60	208.92
<b>62.5</b>	663.60	698.16	776.64	837.48	376.44	231.36	201.96	189.48	182.16	189.48
<b>65.0</b>	555.48	588.96	662.52	716.40	331.68	205.08	180.84	169.56	163.08	169.56
<b>67.5</b>	458.04	486.24	555.96	601.44	287.52	178.80	159.60	149.64	144.00	149.64
<b>70.0</b>	370.20	392.52	456.48	493.56	244.08	152.52	138.00	129.36	124.44	129.36
<b>72.5</b>	291.24	309.36	365.16	396.60	201.24	126.12	116.28	108.72	105.36	108.72
<b>75.0</b>	223.08	238.20	283.32	309.60	160.32	100.68	94.44	88.32	85.92	88.32
<b>77.5</b>	165.12	177.24	210.96	233.52	122.52	76.56	73.56	69.24	67.44	69.24
<b>80.0</b>	117.12	125.16	148.32	166.44	87.84	54.60	53.52	50.88	49.92	50.88
<b>82.5</b>	77.52	81.48	95.52	108.12	56.88	34.80	35.40	34.80	34.20	34.80
<b>85.0</b>	46.68	47.40	53.52	59.52	31.32	18.60	19.68	20.40	20.28	20.40
<b>87.5</b>	24.24	24.00	24.72	24.60	11.88	5.88	7.68	9.00	9.36	9.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<b>225.0</b>	<b>247.5</b>	<b>270.0</b>	<b>292.5</b>	<b>315.0</b>	<b>337.5</b>	<b>360.0</b>
<b>0.0</b>	941.64	941.64	941.64	941.64	941.64	941.64	941.64
<b>2.5</b>	859.92	890.64	945.96	976.80	1015.80	1038.72	1041.72
<b>5.0</b>	792.60	850.08	943.32	1019.64	1104.48	1163.04	1175.28
<b>7.5</b>	732.72	811.20	938.64	1063.56	1202.04	1304.52	1333.80
<b>10.0</b>	680.40	775.20	933.24	1107.96	1311.48	1468.92	1520.52
<b>12.5</b>	633.72	739.08	927.84	1156.68	1433.76	1656.84	1735.56
<b>15.0</b>	592.32	702.48	915.36	1200.00	1568.28	1857.84	1965.60
<b>17.5</b>	556.20	668.64	903.12	1244.40	1705.92	2058.00	2181.96
<b>20.0</b>	524.88	636.84	890.04	1289.04	1840.68	2235.60	2359.68
<b>22.5</b>	498.96	607.08	877.44	1333.56	1971.36	2379.00	2488.44
<b>25.0</b>	474.12	579.48	858.36	1376.04	2090.28	2478.00	2562.72
<b>27.5</b>	453.48	553.08	839.76	1413.84	2187.00	2526.84	2578.80
<b>30.0</b>	433.92	527.52	819.24	1449.84	2254.92	2517.72	2534.40

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<b>32.5</b>	414.72	503.52	796.44	1481.04	2277.36	2449.68	2432.04
<b>35.0</b>	398.40	480.72	772.44	1503.12	2272.44	2334.72	2290.44
<b>37.5</b>	382.92	459.60	747.36	1516.92	2219.64	2182.44	2127.36
<b>40.0</b>	366.36	438.36	719.64	1521.00	2129.64	2014.92	1959.24
<b>42.5</b>	351.00	418.08	689.40	1511.16	2002.44	1847.16	1793.16
<b>45.0</b>	335.28	397.56	657.12	1485.84	1849.32	1680.00	1629.60
<b>47.5</b>	318.00	375.96	623.52	1442.76	1682.88	1520.52	1468.80
<b>50.0</b>	300.96	354.24	588.00	1381.32	1515.36	1362.72	1316.40
<b>52.5</b>	282.60	331.20	550.08	1300.08	1348.80	1211.52	1171.92
<b>55.0</b>	263.76	307.32	509.52	1200.24	1188.60	1068.48	1035.84
<b>57.5</b>	243.72	282.72	466.32	1085.76	1039.44	935.88	904.80
<b>60.0</b>	222.84	257.40	421.32	962.04	901.20	815.28	781.32
<b>62.5</b>	201.96	231.36	376.44	837.48	776.64	698.16	663.60
<b>65.0</b>	180.84	205.08	331.68	716.40	662.52	588.96	555.48
<b>67.5</b>	159.60	178.80	287.52	601.44	555.96	486.24	458.04
<b>70.0</b>	138.00	152.52	244.08	493.56	456.48	392.52	370.20
<b>72.5</b>	116.28	126.12	201.24	396.60	365.16	309.36	291.24
<b>75.0</b>	94.44	100.68	160.32	309.60	283.32	238.20	223.08
<b>77.5</b>	73.56	76.56	122.52	233.52	210.96	177.24	165.12
<b>80.0</b>	53.52	54.60	87.84	166.44	148.32	125.16	117.12
<b>82.5</b>	35.40	34.80	56.88	108.12	95.52	81.48	77.52
<b>85.0</b>	19.68	18.60	31.32	59.52	53.52	47.40	46.68
<b>87.5</b>	7.68	5.88	11.88	24.60	24.72	24.00	24.24
<b>90.0</b>	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	400.18	N.A.	10.90
0-30	963.00	N.A.	26.20
0-40	1698.71	N.A.	46.20
0-60	3044.36	N.A.	82.70
0-80	3636.47	N.A.	98.80
0-90	3680.55	N.A.	100.00
10-90	3588.51	N.A.	97.50
20-40	1298.52	N.A.	35.30
20-50	2038.21	N.A.	55.40
40-70	1745.32	N.A.	47.40
60-80	592.12	N.A.	16.10
70-80	192.45	N.A.	5.20
80-90	44.08	N.A.	1.20
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	3680.55	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.04
10-20	308.15
20-30	562.82
30-40	735.71
40-50	739.69
50-60	605.96
60-70	399.67
70-80	192.45
80-90	44.08
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

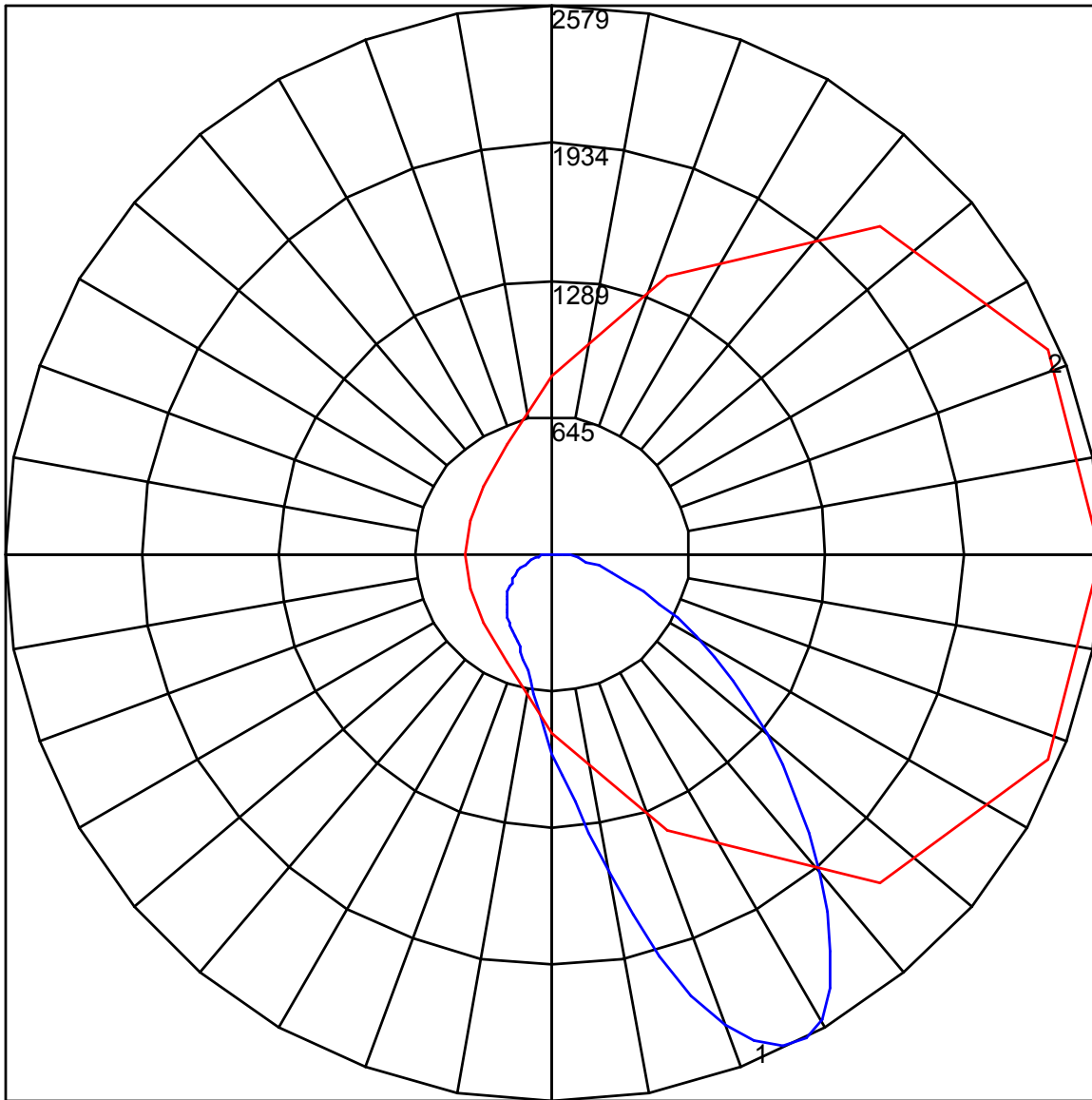
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 2578.8 Located At Horizontal Angle = 0, Vertical Angle = 27.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)