



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P43-LED35-LO-04-AWW-D1W.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]32273

[TESTLAB]

[ISSUE DATE]

[MANUFAC]PRUDENTIAL LIGHTING - LED WALL WASH

[LUMCAT]P43-LED35-LO-04-AWW-D1W

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1626
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	16
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)	0.30 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	9122	10352	3678
55	7148	8202	3516
65	5202	6205	3106
75	3411	4333	2452
85	2120	2431	1422

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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>
<b>0.0</b>	415.891	415.891	415.891	415.891	415.891	415.891	415.891	415.891	415.891	415.891
<b>2.5</b>	460.093	458.768	448.645	431.420	417.799	393.366	379.798	368.933	364.057	368.933
<b>5.0</b>	519.082	513.676	487.812	450.341	416.633	375.452	350.065	332.893	326.003	332.893
<b>7.5</b>	589.095	576.163	530.901	469.739	414.566	358.280	323.618	302.471	295.104	302.471
<b>10.0</b>	671.563	648.773	579.237	489.349	412.181	342.380	300.510	276.925	269.399	276.925
<b>12.5</b>	766.539	731.771	633.244	510.867	409.796	326.427	279.893	255.566	248.093	255.566
<b>15.0</b>	868.140	820.546	692.657	530.000	404.284	310.262	261.608	237.811	230.603	237.811
<b>17.5</b>	963.699	908.950	753.448	549.610	398.878	295.316	245.655	223.024	216.452	223.024
<b>20.0</b>	1042.192	987.390	812.967	569.326	393.101	281.271	231.822	210.728	204.368	210.728
<b>22.5</b>	1099.061	1050.725	870.684	588.989	387.536	268.127	220.374	200.870	195.358	200.870
<b>25.0</b>	1131.868	1094.450	923.207	607.751	379.109	255.937	209.403	191.966	186.984	191.966
<b>27.5</b>	1138.970	1116.021	965.925	624.446	370.894	244.277	200.287	184.175	180.147	184.175
<b>30.0</b>	1119.360	1111.993	995.923	640.346	361.831	232.988	191.648	177.020	173.999	177.020
<b>32.5</b>	1074.151	1081.942	1005.834	654.126	351.761	222.388	183.168	171.137	168.010	171.137
<b>35.0</b>	1011.611	1031.168	1003.661	663.878	341.161	212.318	175.960	165.360	162.233	165.360
<b>37.5</b>	939.584	963.911	980.341	669.973	330.084	202.990	169.123	159.424	156.297	159.424
<b>40.0</b>	865.331	889.923	940.591	671.775	317.841	193.609	161.809	153.170	150.043	153.170
<b>42.5</b>	791.979	815.829	884.411	667.429	304.485	184.652	155.025	146.757	143.365	146.757
<b>45.0</b>	719.740	742.000	816.783	656.246	290.228	175.589	148.082	139.708	136.634	139.708
<b>47.5</b>	648.720	671.563	743.272	637.219	275.388	166.049	140.450	132.606	128.949	132.606
<b>50.0</b>	581.410	601.868	669.284	610.083	259.700	156.456	132.924	125.133	120.946	125.133
<b>52.5</b>	517.598	535.088	595.720	574.202	242.952	146.280	124.815	117.289	113.208	117.289
<b>55.0</b>	457.496	471.912	524.965	530.106	225.038	135.733	116.494	109.180	105.364	109.180
<b>57.5</b>	399.620	413.347	459.086	479.544	205.958	124.868	107.643	100.912	97.149	100.912
<b>60.0</b>	345.083	360.082	398.030	424.901	186.083	113.685	98.421	92.273	89.040	92.273
<b>62.5</b>	293.090	308.354	343.016	369.887	166.261	102.184	89.199	83.687	80.454	83.687
<b>65.0</b>	245.337	260.124	292.613	316.410	146.492	90.577	79.871	74.889	72.027	74.889
<b>67.5</b>	202.301	214.756	245.549	265.636	126.988	78.970	70.490	66.091	63.600	66.091
<b>70.0</b>	163.505	173.363	201.612	217.989	107.802	67.363	60.950	57.134	54.961	57.134
<b>72.5</b>	128.631	136.634	161.279	175.165	88.881	55.703	51.357	48.018	46.534	48.018
<b>75.0</b>	98.527	105.205	125.133	136.740	70.808	44.467	41.711	39.008	37.948	39.008
<b>77.5</b>	72.928	78.281	93.174	103.138	54.113	33.814	32.489	30.581	29.786	30.581
<b>80.0</b>	51.728	55.279	65.508	73.511	38.796	24.115	23.638	22.472	22.048	22.472
<b>82.5</b>	34.238	35.987	42.188	47.753	25.122	15.370	15.635	15.370	15.105	15.370
<b>85.0</b>	20.617	20.935	23.638	26.288	13.833	8.215	8.692	9.010	8.957	9.010
<b>87.5</b>	10.706	10.600	10.918	10.865	5.247	2.597	3.392	3.975	4.134	3.975
<b>90.0</b>	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>
<b>0.0</b>	415.891	415.891	415.891	415.891	415.891	415.891	415.891
<b>2.5</b>	379.798	393.366	417.799	431.420	448.645	458.768	460.093
<b>5.0</b>	350.065	375.452	416.633	450.341	487.812	513.676	519.082
<b>7.5</b>	323.618	358.280	414.566	469.739	530.901	576.163	589.095
<b>10.0</b>	300.510	342.380	412.181	489.349	579.237	648.773	671.563
<b>12.5</b>	279.893	326.427	409.796	510.867	633.244	731.771	766.539
<b>15.0</b>	261.608	310.262	404.284	530.000	692.657	820.546	868.140
<b>17.5</b>	245.655	295.316	398.878	549.610	753.448	908.950	963.699
<b>20.0</b>	231.822	281.271	393.101	569.326	812.967	987.390	1042.192
<b>22.5</b>	220.374	268.127	387.536	588.989	870.684	1050.725	1099.061
<b>25.0</b>	209.403	255.937	379.109	607.751	923.207	1094.450	1131.868
<b>27.5</b>	200.287	244.277	370.894	624.446	965.925	1116.021	1138.970
<b>30.0</b>	191.648	232.988	361.831	640.346	995.923	1111.993	1119.360

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	183.168	222.388	351.761	654.126	1005.834	1081.942	1074.151
<b>35.0</b>	175.960	212.318	341.161	663.878	1003.661	1031.168	1011.611
<b>37.5</b>	169.123	202.990	330.084	669.973	980.341	963.911	939.584
<b>40.0</b>	161.809	193.609	317.841	671.775	940.591	889.923	865.331
<b>42.5</b>	155.025	184.652	304.485	667.429	884.411	815.829	791.979
<b>45.0</b>	148.082	175.589	290.228	656.246	816.783	742.000	719.740
<b>47.5</b>	140.450	166.049	275.388	637.219	743.272	671.563	648.720
<b>50.0</b>	132.924	156.456	259.700	610.083	669.284	601.868	581.410
<b>52.5</b>	124.815	146.280	242.952	574.202	595.720	535.088	517.598
<b>55.0</b>	116.494	135.733	225.038	530.106	524.965	471.912	457.496
<b>57.5</b>	107.643	124.868	205.958	479.544	459.086	413.347	399.620
<b>60.0</b>	98.421	113.685	186.083	424.901	398.030	360.082	345.083
<b>62.5</b>	89.199	102.184	166.261	369.887	343.016	308.354	293.090
<b>65.0</b>	79.871	90.577	146.492	316.410	292.613	260.124	245.337
<b>67.5</b>	70.490	78.970	126.988	265.636	245.549	214.756	202.301
<b>70.0</b>	60.950	67.363	107.802	217.989	201.612	173.363	163.505
<b>72.5</b>	51.357	55.703	88.881	175.165	161.279	136.634	128.631
<b>75.0</b>	41.711	44.467	70.808	136.740	125.133	105.205	98.527
<b>77.5</b>	32.489	33.814	54.113	103.138	93.174	78.281	72.928
<b>80.0</b>	23.638	24.115	38.796	73.511	65.508	55.279	51.728
<b>82.5</b>	15.635	15.370	25.122	47.753	42.188	35.987	34.238
<b>85.0</b>	8.692	8.215	13.833	26.288	23.638	20.935	20.617
<b>87.5</b>	3.392	2.597	5.247	10.865	10.918	10.600	10.706
<b>90.0</b>	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	176.75	N.A.	10.90
0-30	425.32	N.A.	26.20
0-40	750.26	N.A.	46.20
0-60	1344.59	N.A.	82.70
0-80	1606.11	N.A.	98.80
0-90	1625.58	N.A.	100.00
10-90	1584.93	N.A.	97.50
20-40	573.51	N.A.	35.30
20-50	900.21	N.A.	55.40
40-70	770.85	N.A.	47.40
60-80	261.52	N.A.	16.10
70-80	85.00	N.A.	5.20
80-90	19.47	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	1625.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	40.65
10-20	136.10
20-30	248.58
30-40	324.94
40-50	326.70
50-60	267.63
60-70	176.52
70-80	85.00
80-90	19.47
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

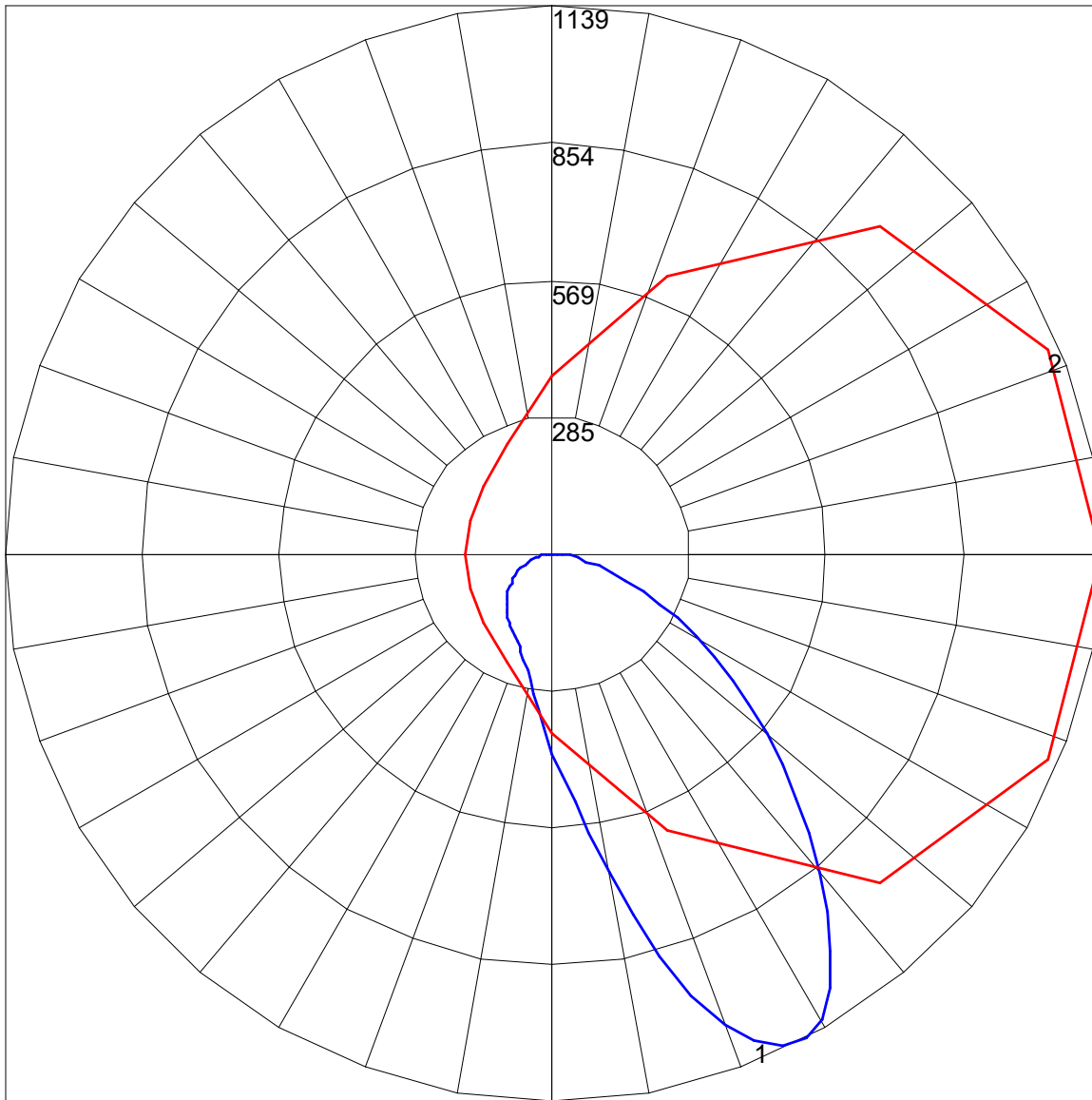
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	78	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 = 1138.97 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.)