



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P40-LED3-MO-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]P40-LED3-MO-04-AWL-D1W

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2699
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	28
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	14657	16633	5910
55	11485	13179	5650
65	8359	9970	4991
75	5482	6962	3939
85	3406	3905	2285

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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	690.536	690.536	690.536	690.536	690.536	690.536	690.536	690.536	690.536	690.536
2.5	763.928	761.728	744.920	716.320	693.704	653.136	630.608	612.568	604.472	612.568
5.0	861.872	852.896	809.952	747.736	691.768	623.392	581.240	552.728	541.288	552.728
7.5	978.120	956.648	881.496	779.944	688.336	594.880	537.328	502.216	489.984	502.216
10.0	1115.048	1077.208	961.752	812.504	684.376	568.480	498.960	459.800	447.304	459.800
12.5	1272.744	1215.016	1051.424	848.232	680.416	541.992	464.728	424.336	411.928	424.336
15.0	1441.440	1362.416	1150.072	880.000	671.264	515.152	434.368	394.856	382.888	394.856
17.5	1600.104	1509.200	1251.008	912.560	662.288	490.336	407.880	370.304	359.392	370.304
20.0	1730.432	1639.440	1349.832	945.296	652.696	467.016	384.912	349.888	339.328	349.888
22.5	1824.856	1744.600	1445.664	977.944	643.456	445.192	365.904	333.520	324.368	333.520
25.0	1879.328	1817.200	1532.872	1009.096	629.464	424.952	347.688	318.736	310.464	318.736
27.5	1891.120	1853.016	1603.800	1036.816	615.824	405.592	332.552	305.800	299.112	305.800
30.0	1858.560	1846.328	1653.608	1063.216	600.776	386.848	318.208	293.920	288.904	293.920
32.5	1783.496	1796.432	1670.064	1086.096	584.056	369.248	304.128	284.152	278.960	284.152
35.0	1679.656	1712.128	1666.456	1102.288	566.456	352.528	292.160	274.560	269.368	274.560
37.5	1560.064	1600.456	1627.736	1112.408	548.064	337.040	280.808	264.704	259.512	264.704
40.0	1436.776	1477.608	1561.736	1115.400	527.736	321.464	268.664	254.320	249.128	254.320
42.5	1314.984	1354.584	1468.456	1108.184	505.560	306.592	257.400	243.672	238.040	243.672
45.0	1195.040	1232.000	1356.168	1089.616	481.888	291.544	245.872	231.968	226.864	231.968
47.5	1077.120	1115.048	1234.112	1058.024	457.248	275.704	233.200	220.176	214.104	220.176
50.0	965.360	999.328	1111.264	1012.968	431.200	259.776	220.704	207.768	200.816	207.768
52.5	859.408	888.448	989.120	953.392	403.392	242.880	207.240	194.744	187.968	194.744
55.0	759.616	783.552	871.640	880.176	373.648	225.368	193.424	181.280	174.944	181.280
57.5	663.520	686.312	762.256	796.224	341.968	207.328	178.728	167.552	161.304	167.552
60.0	572.968	597.872	660.880	705.496	308.968	188.760	163.416	153.208	147.840	153.208
62.5	486.640	511.984	569.536	614.152	276.056	169.664	148.104	138.952	133.584	138.952
65.0	407.352	431.904	485.848	525.360	243.232	150.392	132.616	124.344	119.592	124.344
67.5	335.896	356.576	407.704	441.056	210.848	131.120	117.040	109.736	105.600	109.736
70.0	271.480	287.848	334.752	361.944	178.992	111.848	101.200	94.864	91.256	94.864
72.5	213.576	226.864	267.784	290.840	147.576	92.488	85.272	79.728	77.264	79.728
75.0	163.592	174.680	207.768	227.040	117.568	73.832	69.256	64.768	63.008	64.768
77.5	121.088	129.976	154.704	171.248	89.848	56.144	53.944	50.776	49.456	50.776
80.0	85.888	91.784	108.768	122.056	64.416	40.040	39.248	37.312	36.608	37.312
82.5	56.848	59.752	70.048	79.288	41.712	25.520	25.960	25.520	25.080	25.520
85.0	34.232	34.760	39.248	43.648	22.968	13.640	14.432	14.960	14.872	14.960
87.5	17.776	17.600	18.128	18.040	8.712	4.312	5.632	6.600	6.864	6.600
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**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	690.536	690.536	690.536	690.536	690.536	690.536	690.536
2.5	630.608	653.136	693.704	716.320	744.920	761.728	763.928
5.0	581.240	623.392	691.768	747.736	809.952	852.896	861.872
7.5	537.328	594.880	688.336	779.944	881.496	956.648	978.120
10.0	498.960	568.480	684.376	812.504	961.752	1077.208	1115.048
12.5	464.728	541.992	680.416	848.232	1051.424	1215.016	1272.744
15.0	434.368	515.152	671.264	880.000	1150.072	1362.416	1441.440
17.5	407.880	490.336	662.288	912.560	1251.008	1509.200	1600.104
20.0	384.912	467.016	652.696	945.296	1349.832	1639.440	1730.432
22.5	365.904	445.192	643.456	977.944	1445.664	1744.600	1824.856
25.0	347.688	424.952	629.464	1009.096	1532.872	1817.200	1879.328
27.5	332.552	405.592	615.824	1036.816	1603.800	1853.016	1891.120
30.0	318.208	386.848	600.776	1063.216	1653.608	1846.328	1858.560

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32.5	304.128	369.248	584.056	1086.096	1670.064	1796.432	1783.496
35.0	292.160	352.528	566.456	1102.288	1666.456	1712.128	1679.656
37.5	280.808	337.040	548.064	1112.408	1627.736	1600.456	1560.064
40.0	268.664	321.464	527.736	1115.400	1561.736	1477.608	1436.776
42.5	257.400	306.592	505.560	1108.184	1468.456	1354.584	1314.984
45.0	245.872	291.544	481.888	1089.616	1356.168	1232.000	1195.040
47.5	233.200	275.704	457.248	1058.024	1234.112	1115.048	1077.120
50.0	220.704	259.776	431.200	1012.968	1111.264	999.328	965.360
52.5	207.240	242.880	403.392	953.392	989.120	888.448	859.408
55.0	193.424	225.368	373.648	880.176	871.640	783.552	759.616
57.5	178.728	207.328	341.968	796.224	762.256	686.312	663.520
60.0	163.416	188.760	308.968	705.496	660.880	597.872	572.968
62.5	148.104	169.664	276.056	614.152	569.536	511.984	486.640
65.0	132.616	150.392	243.232	525.360	485.848	431.904	407.352
67.5	117.040	131.120	210.848	441.056	407.704	356.576	335.896
70.0	101.200	111.848	178.992	361.944	334.752	287.848	271.480
72.5	85.272	92.488	147.576	290.840	267.784	226.864	213.576
75.0	69.256	73.832	117.568	227.040	207.768	174.680	163.592
77.5	53.944	56.144	89.848	171.248	154.704	129.976	121.088
80.0	39.248	40.040	64.416	122.056	108.768	91.784	85.888
82.5	25.960	25.520	41.712	79.288	70.048	59.752	56.848
85.0	14.432	13.640	22.968	43.648	39.248	34.760	34.232
87.5	5.632	4.312	8.712	18.040	18.128	17.600	17.776
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	293.47	N.A.	10.90
0-30	706.20	N.A.	26.20
0-40	1245.72	N.A.	46.20
0-60	2232.53	N.A.	82.70
0-80	2666.75	N.A.	98.80
0-90	2699.07	N.A.	100.00
10-90	2631.58	N.A.	97.50
20-40	952.25	N.A.	35.30
20-50	1494.69	N.A.	55.40
40-70	1279.9	N.A.	47.40
60-80	434.22	N.A.	16.10
70-80	141.13	N.A.	5.20
80-90	32.32	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	2699.07	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.49
10-20	225.97
20-30	412.73
30-40	539.52
40-50	542.44
50-60	444.37
60-70	293.09
70-80	141.13
80-90	32.32
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

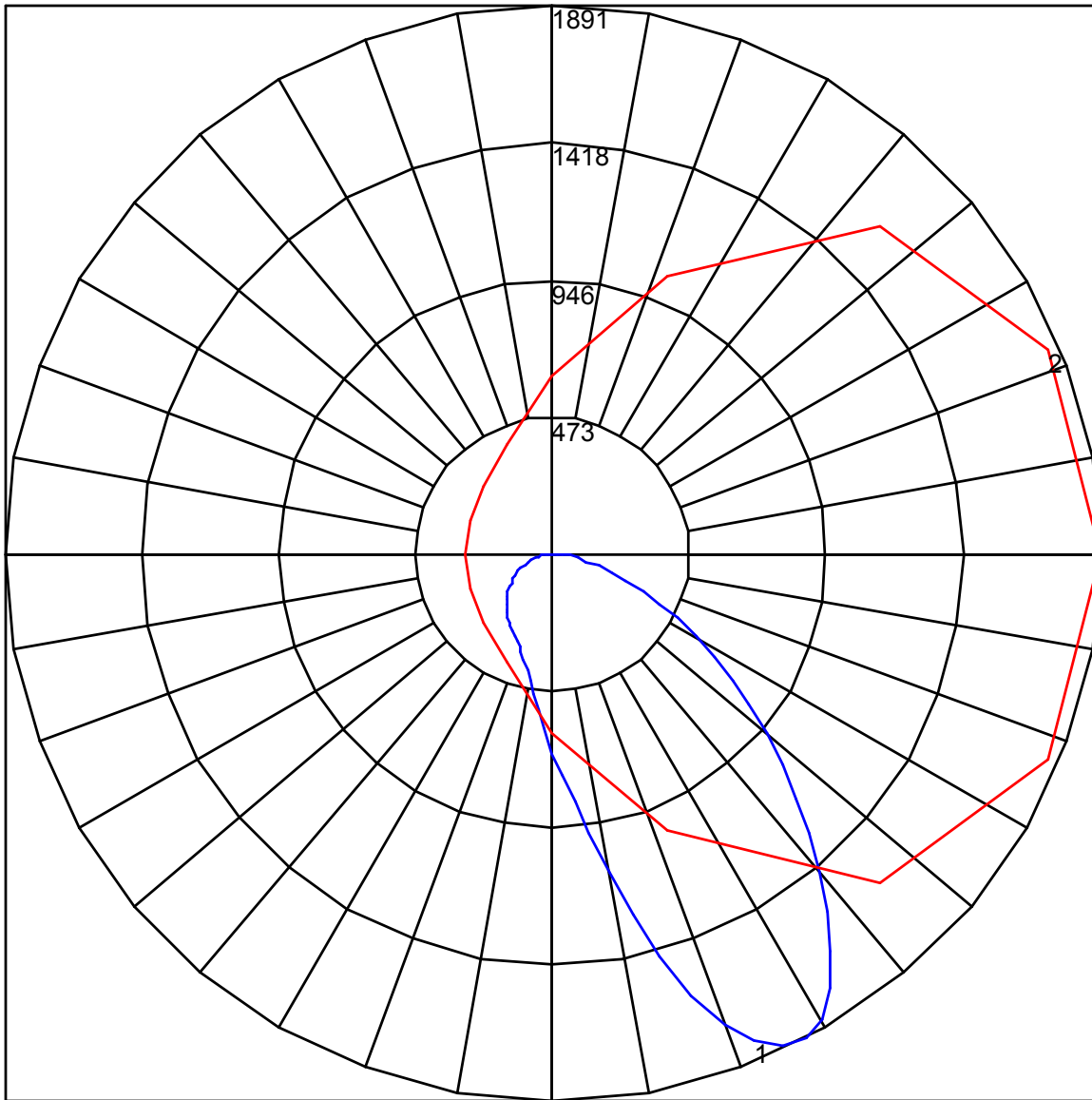
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	57	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	37	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 = 1891.12 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.)