



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P40-LED3-HO-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-HO-04-AWL-D1W

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4386
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	23817	27029	9604
55	18664	21416	9180
65	13584	16201	8111
75	8908	11313	6402
85	5535	6346	3714

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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>	1122.121	1122.121	1122.121	1122.121	1122.121	1122.121	1122.121	1122.121	1122.121	1122.121
<b>2.5</b>	1241.383	1237.808	1210.495	1164.020	1127.269	1061.346	1024.738	995.423	982.267	995.423
<b>5.0</b>	1400.542	1385.956	1316.172	1215.071	1124.123	1013.012	944.515	898.183	879.593	898.183
<b>7.5</b>	1589.445	1554.553	1432.431	1267.409	1118.546	966.680	873.158	816.101	796.224	816.101
<b>10.0</b>	1811.953	1750.463	1562.847	1320.319	1112.111	923.780	810.810	747.175	726.869	747.175
<b>12.5</b>	2068.209	1974.401	1708.564	1378.377	1105.676	880.737	755.183	689.546	669.383	689.546
<b>15.0</b>	2342.340	2213.926	1868.867	1430.000	1090.804	837.122	705.848	641.641	622.193	641.641
<b>17.5</b>	2600.169	2452.450	2032.888	1482.910	1076.218	796.796	662.805	601.744	584.012	601.744
<b>20.0</b>	2811.952	2664.090	2193.477	1536.106	1060.631	758.901	625.482	568.568	551.408	568.568
<b>22.5</b>	2965.391	2834.975	2349.204	1589.159	1045.616	723.437	594.594	541.970	527.098	541.970
<b>25.0</b>	3053.908	2952.950	2490.917	1639.781	1022.879	690.547	564.993	517.946	504.504	517.946
<b>27.5</b>	3073.070	3011.151	2606.175	1684.826	1000.714	659.087	540.397	496.925	486.057	496.925
<b>30.0</b>	3020.160	3000.283	2687.113	1727.726	976.261	628.628	517.088	477.620	469.469	477.620
<b>32.5</b>	2898.181	2919.202	2713.854	1764.906	949.091	600.028	494.208	461.747	453.310	461.747
<b>35.0</b>	2729.441	2782.208	2707.991	1791.218	920.491	572.858	474.760	446.160	437.723	446.160
<b>37.5</b>	2535.104	2600.741	2645.071	1807.663	890.604	547.690	456.313	430.144	421.707	430.144
<b>40.0</b>	2334.761	2401.113	2537.821	1812.525	857.571	522.379	436.579	413.270	404.833	413.270
<b>42.5</b>	2136.849	2201.199	2386.241	1800.799	821.535	498.212	418.275	395.967	386.815	395.967
<b>45.0</b>	1941.940	2002.000	2203.773	1770.626	783.068	473.759	399.542	376.948	368.654	376.948
<b>47.5</b>	1750.320	1811.953	2005.432	1719.289	743.028	448.019	378.950	357.786	347.919	357.786
<b>50.0</b>	1568.710	1623.908	1805.804	1646.073	700.700	422.136	358.644	337.623	326.326	337.623
<b>52.5</b>	1396.538	1443.728	1607.320	1549.262	655.512	394.680	336.765	316.459	305.448	316.459
<b>55.0</b>	1234.376	1273.272	1416.415	1430.286	607.178	366.223	314.314	294.580	284.284	294.580
<b>57.5</b>	1078.220	1115.257	1238.666	1293.864	555.698	336.908	290.433	272.272	262.119	272.272
<b>60.0</b>	931.073	971.542	1073.930	1146.431	502.073	306.735	265.551	248.963	240.240	248.963
<b>62.5</b>	790.790	831.974	925.496	997.997	448.591	275.704	240.669	225.797	217.074	225.797
<b>65.0</b>	661.947	701.844	789.503	853.710	395.252	244.387	215.501	202.059	194.337	202.059
<b>67.5</b>	545.831	579.436	662.519	716.716	342.628	213.070	190.190	178.321	171.600	178.321
<b>70.0</b>	441.155	467.753	543.972	588.159	290.862	181.753	164.450	154.154	148.291	154.154
<b>72.5</b>	347.061	368.654	435.149	472.615	239.811	150.293	138.567	129.558	125.554	129.558
<b>75.0</b>	265.837	283.855	337.623	368.940	191.048	119.977	112.541	105.248	102.388	105.248
<b>77.5</b>	196.768	211.211	251.394	278.278	146.003	91.234	87.659	82.511	80.366	82.511
<b>80.0</b>	139.568	149.149	176.748	198.341	104.676	65.065	63.778	60.632	59.488	60.632
<b>82.5</b>	92.378	97.097	113.828	128.843	67.782	41.470	42.185	41.470	40.755	41.470
<b>85.0</b>	55.627	56.485	63.778	70.928	37.323	22.165	23.452	24.310	24.167	24.310
<b>87.5</b>	28.886	28.600	29.458	29.315	14.157	7.007	9.152	10.725	11.154	10.725
<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**

	<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>	1122.121	1122.121	1122.121	1122.121	1122.121	1122.121	1122.121
<b>2.5</b>	1024.738	1061.346	1127.269	1164.020	1210.495	1237.808	1241.383
<b>5.0</b>	944.515	1013.012	1124.123	1215.071	1316.172	1385.956	1400.542
<b>7.5</b>	873.158	966.680	1118.546	1267.409	1432.431	1554.553	1589.445
<b>10.0</b>	810.810	923.780	1112.111	1320.319	1562.847	1750.463	1811.953
<b>12.5</b>	755.183	880.737	1105.676	1378.377	1708.564	1974.401	2068.209
<b>15.0</b>	705.848	837.122	1090.804	1430.000	1868.867	2213.926	2342.340
<b>17.5</b>	662.805	796.796	1076.218	1482.910	2032.888	2452.450	2600.169
<b>20.0</b>	625.482	758.901	1060.631	1536.106	2193.477	2664.090	2811.952
<b>22.5</b>	594.594	723.437	1045.616	1589.159	2349.204	2834.975	2965.391
<b>25.0</b>	564.993	690.547	1022.879	1639.781	2490.917	2952.950	3053.908
<b>27.5</b>	540.397	659.087	1000.714	1684.826	2606.175	3011.151	3073.070
<b>30.0</b>	517.088	628.628	976.261	1727.726	2687.113	3000.283	3020.160

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	494.208	600.028	949.091	1764.906	2713.854	2919.202	2898.181
<b>35.0</b>	474.760	572.858	920.491	1791.218	2707.991	2782.208	2729.441
<b>37.5</b>	456.313	547.690	890.604	1807.663	2645.071	2600.741	2535.104
<b>40.0</b>	436.579	522.379	857.571	1812.525	2537.821	2401.113	2334.761
<b>42.5</b>	418.275	498.212	821.535	1800.799	2386.241	2201.199	2136.849
<b>45.0</b>	399.542	473.759	783.068	1770.626	2203.773	2002.000	1941.940
<b>47.5</b>	378.950	448.019	743.028	1719.289	2005.432	1811.953	1750.320
<b>50.0</b>	358.644	422.136	700.700	1646.073	1805.804	1623.908	1568.710
<b>52.5</b>	336.765	394.680	655.512	1549.262	1607.320	1443.728	1396.538
<b>55.0</b>	314.314	366.223	607.178	1430.286	1416.415	1273.272	1234.376
<b>57.5</b>	290.433	336.908	555.698	1293.864	1238.666	1115.257	1078.220
<b>60.0</b>	265.551	306.735	502.073	1146.431	1073.930	971.542	931.073
<b>62.5</b>	240.669	275.704	448.591	997.997	925.496	831.974	790.790
<b>65.0</b>	215.501	244.387	395.252	853.710	789.503	701.844	661.947
<b>67.5</b>	190.190	213.070	342.628	716.716	662.519	579.436	545.831
<b>70.0</b>	164.450	181.753	290.862	588.159	543.972	467.753	441.155
<b>72.5</b>	138.567	150.293	239.811	472.615	435.149	368.654	347.061
<b>75.0</b>	112.541	119.977	191.048	368.940	337.623	283.855	265.837
<b>77.5</b>	87.659	91.234	146.003	278.278	251.394	211.211	196.768
<b>80.0</b>	63.778	65.065	104.676	198.341	176.748	149.149	139.568
<b>82.5</b>	42.185	41.470	67.782	128.843	113.828	97.097	92.378
<b>85.0</b>	23.452	22.165	37.323	70.928	63.778	56.485	55.627
<b>87.5</b>	9.152	7.007	14.157	29.315	29.458	28.600	28.886
<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	476.88	N.A.	10.90
0-30	1147.57	N.A.	26.20
0-40	2024.29	N.A.	46.20
0-60	3627.86	N.A.	82.70
0-80	4333.46	N.A.	98.80
0-90	4385.99	N.A.	100.00
10-90	4276.31	N.A.	97.50
20-40	1547.41	N.A.	35.30
20-50	2428.87	N.A.	55.40
40-70	2079.84	N.A.	47.40
60-80	705.61	N.A.	16.10
70-80	229.34	N.A.	5.20
80-90	52.52	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	4385.99	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	109.68
10-20	367.21
20-30	670.69
30-40	876.72
40-50	881.46
50-60	722.11
60-70	476.27
70-80	229.34
80-90	52.52
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

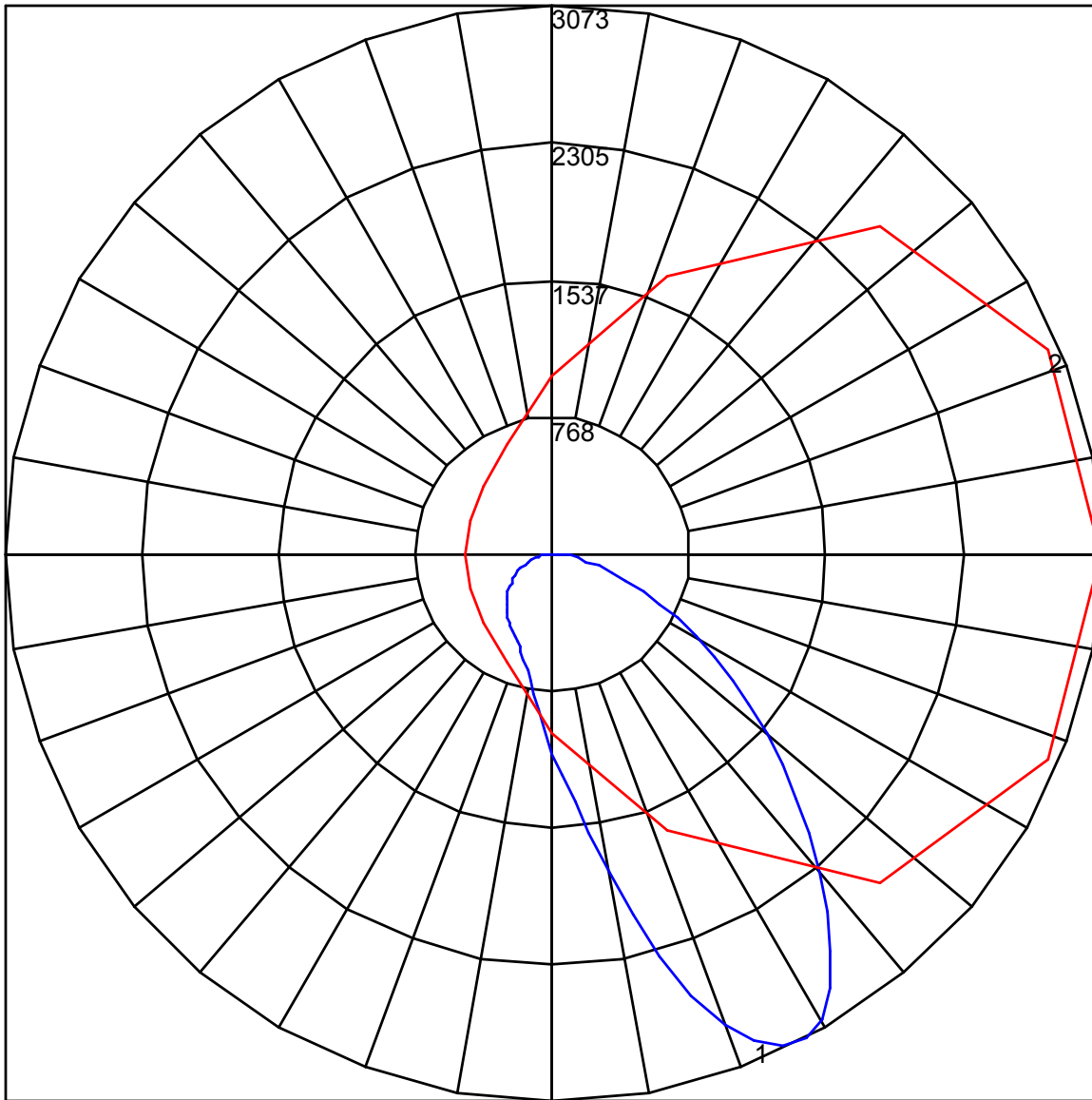
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 3073.07 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.)