



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P46-LED4HO-04-SAL-D3.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041412309
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 5/5/2014
 [MANUFACTURER] PRUDENTIAL LIGHTING
 [LUMEN CATEGORY] P46-LED4HO-04-SAL-TMW-D3-SC-UNV
 [LUMINAIRE] 48-1/4"L X 4-1/8"W X 6"H. LED LUMINAIRE.
 [MORE] DOWNLIGHT DIFFUSED LENS. UPLIGHT NO LENS.
 [BALLAST CATEGORY] OSRAM OPTOTRONIC UNV/DIM/L
 [BALLAST] INPUT: 120-277VAC,
 [LAMP POSITION] 0,0
 [LAMP CATEGORY] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC, 76W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8977
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	96
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.34 ft
Luminous Height	0.50 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9528	4828	3928
55	8304	3516	2766
65	6994	2415	1851
75	5093	1345	1014
85	2688	449	340

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1705.450	1705.450	1705.450	1705.450	1705.450	1705.450	1705.450	1705.450	1705.450	1705.450
5	1688.821	1688.568	1688.338	1688.522	1689.097	1690.937	1692.731	1693.605	1693.674	1693.444
10	1656.552	1656.667	1657.219	1658.070	1658.714	1660.278	1660.715	1658.346	1655.701	1653.907
15	1596.154	1595.740	1595.763	1596.200	1596.890	1599.995	1601.306	1597.120	1593.946	1594.567
20	1522.669	1522.485	1523.198	1524.302	1524.302	1522.393	1517.885	1515.355	1512.342	1511.353
25	1426.621	1425.839	1425.103	1424.873	1424.988	1427.771	1423.332	1418.663	1419.008	1409.601
30	1324.248	1322.523	1320.867	1321.005	1324.018	1322.569	1313.921	1307.849	1303.479	1296.027
35	1212.905	1211.364	1208.512	1205.637	1203.797	1200.876	1198.760	1189.882	1187.030	1173.552
40	1084.381	1083.875	1083.093	1083.208	1083.369	1077.366	1075.848	1063.566	1054.941	1046.569
45	958.594	957.950	958.410	959.399	955.305	954.178	943.046	935.433	926.969	918.873
50	831.864	831.289	831.335	831.680	827.816	825.792	814.522	807.392	801.987	790.510
55	709.918	709.412	707.112	705.088	702.742	698.878	689.954	682.847	674.498	666.011
60	596.252	597.034	597.103	598.161	591.123	587.443	581.555	572.999	565.294	558.233
65	474.007	474.950	474.881	474.076	469.430	464.623	459.011	453.008	447.143	441.462
70	356.017	356.592	355.764	354.614	351.210	347.622	343.298	339.020	335.018	330.970
75	244.490	245.755	245.364	242.903	241.201	239.039	236.417	234.048	231.794	229.448
80	148.879	149.247	147.545	146.487	145.383	144.601	143.681	142.945	142.278	141.266
85	71.967	71.783	71.047	70.771	70.426	69.966	69.391	69.161	68.931	68.793
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	55.476	70.909	60.467	48.599	50.577	51.980	53.360	54.556	54.901	55.223
100	193.476	194.925	168.429	166.681	145.590	63.158	64.607	66.562	68.425	69.920
105	342.171	347.024	351.095	308.867	296.102	303.370	303.347	169.372	77.372	76.912
110	511.750	519.386	513.728	520.076	470.833	441.048	442.382	445.786	450.225	453.123
115	680.593	690.276	678.960	687.056	691.633	663.412	582.889	583.119	585.718	591.675
120	841.179	853.185	840.489	838.741	849.229	852.403	848.033	737.702	716.289	721.671
125	976.649	979.754	980.858	975.660	976.971	984.860	987.804	993.807	906.982	842.076
130	1115.523	1116.742	1120.974	1112.648	1114.304	1127.851	1128.679	1129.369	1129.346	1129.323
135	1243.127	1239.493	1251.821	1247.796	1246.232	1250.165	1254.673	1254.972	1259.112	1263.827
140	1361.301	1357.483	1368.891	1364.728	1360.933	1359.346	1363.348	1365.694	1374.618	1376.228
145	1460.638	1457.878	1460.615	1466.641	1461.213	1461.512	1459.028	1463.881	1474.415	1475.726
150	1548.015	1550.683	1548.337	1559.538	1558.020	1560.757	1559.952	1557.399	1554.041	1557.008
155	1628.377	1631.298	1633.138	1633.920	1643.626	1641.096	1637.462	1636.910	1633.345	1630.838
160	1694.456	1697.377	1698.711	1698.274	1696.986	1704.760	1702.897	1701.632	1699.194	1697.998
165	1746.965	1744.895	1746.781	1747.839	1744.320	1748.920	1755.153	1756.602	1753.198	1751.634
170	1782.661	1780.315	1781.143	1782.546	1783.604	1782.983	1787.100	1787.054	1786.387	1785.973
175	1804.787	1805.017	1805.753	1808.513	1806.374	1812.170	1815.160	1814.585	1813.964	1814.263
180	1821.232	1821.232	1821.232	1821.232	1821.232	1821.232	1821.232	1821.232	1821.232	1821.232

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	1705.450	1705.450	1705.450	1705.450	1705.450	1705.450	1705.450	1705.450	1705.450
5	1692.823	1692.294	1691.604	1690.615	1689.488	1688.844	1689.419	1690.316	1690.615
10	1652.527	1650.986	1649.997	1648.594	1647.674	1647.191	1647.122	1647.628	1647.559
15	1595.740	1590.289	1585.528	1582.308	1579.847	1579.019	1578.973	1578.559	1578.398
20	1509.007	1502.153	1503.740	1495.023	1489.802	1487.341	1487.341	1486.398	1485.731
25	1402.448	1398.929	1393.294	1389.545	1383.220	1378.183	1377.700	1376.458	1375.101
30	1292.692	1282.158	1274.890	1270.451	1267.829	1259.595	1257.778	1256.444	1254.926
35	1167.480	1158.763	1152.990	1143.974	1137.994	1137.051	1131.255	1129.944	1128.702
40	1041.578	1029.480	1021.545	1015.864	1010.183	1007.469	1001.190	998.890	997.625
45	910.570	903.394	891.802	884.695	878.508	874.966	871.378	868.825	867.836
50	782.299	772.248	764.451	757.344	752.261	748.604	744.855	742.440	741.911
55	658.122	650.348	643.333	637.031	632.247	628.797	625.071	622.426	622.035
60	551.195	544.571	539.005	533.830	529.391	525.734	522.744	520.743	520.076

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CANDELA TABULATION - (Cont.)

65	436.172	431.273	426.489	422.441	419.106	415.725	413.149	412.022	411.010
70	327.267	323.610	320.436	317.584	314.479	311.949	310.431	309.534	308.729
75	227.194	225.124	223.169	220.984	218.776	217.603	216.338	215.809	215.326
80	140.024	138.759	137.356	136.620	135.654	134.987	134.343	133.975	133.745
85	68.678	68.425	68.057	67.804	67.597	67.183	67.275	66.976	66.723
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	55.637	56.028	56.258	56.511	56.626	56.511	56.074	55.683	55.338
100	70.978	71.783	72.496	73.163	73.646	73.761	73.209	72.749	72.381
105	77.786	78.706	79.810	80.454	80.914	81.098	80.569	80.247	79.810
110	415.840	165.600	92.437	87.193	86.549	86.342	85.836	85.606	85.054
115	590.640	594.044	599.794	598.069	603.796	602.347	587.397	547.906	530.863
120	725.167	723.879	724.983	731.975	729.261	728.847	739.588	737.035	736.276
125	833.681	838.879	839.684	841.110	841.846	846.584	850.172	845.664	848.861
130	1045.534	986.585	957.973	954.040	954.132	960.940	964.252	959.077	964.873
135	1263.275	1260.009	1247.175	1175.714	1133.118	1112.096	1091.511	1084.151	1088.981
140	1377.286	1375.285	1373.514	1378.735	1380.276	1384.439	1381.771	1381.449	1381.311
145	1476.899	1477.451	1480.050	1483.914	1482.143	1477.658	1487.801	1484.259	1483.638
150	1560.297	1569.865	1572.602	1574.787	1570.601	1571.521	1570.509	1574.373	1574.442
155	1627.940	1632.471	1633.322	1635.461	1637.531	1639.486	1643.281	1650.181	1652.021
160	1695.974	1693.766	1691.673	1689.764	1689.994	1691.328	1694.571	1695.790	1703.817
165	1748.207	1748.713	1747.517	1745.470	1747.241	1749.242	1755.107	1743.561	1758.810
170	1789.607	1792.965	1795.679	1794.920	1794.483	1795.840	1794.529	1789.814	1800.325
175	1812.193	1813.136	1812.653	1812.607	1809.295	1812.860	1805.753	1811.227	1811.411
180	1821.232	1821.232	1821.232	1821.232	1821.232	1821.232	1821.232	1821.232	1821.232

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	608.01	N.A.	6.80
0-30	1255.12	N.A.	14.00
0-40	1988.4	N.A.	22.10
0-60	3296.77	N.A.	36.70
0-80	3983.19	N.A.	44.40
0-90	4059.11	N.A.	45.20
10-90	3898.87	N.A.	43.40
20-40	1380.4	N.A.	15.40
20-50	2088.64	N.A.	23.30
40-70	1748.53	N.A.	19.50
60-80	686.42	N.A.	7.60
70-80	246.25	N.A.	2.70
80-90	75.92	N.A.	0.80
90-110	254.92	N.A.	2.80
90-120	827.73	N.A.	9.20
90-130	1640.44	N.A.	18.30
90-150	3497.52	N.A.	39.00
90-180	4918.1	N.A.	54.80
110-180	4663.18	N.A.	51.90
0-180	8977.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	160.24
10-20	447.77
20-30	647.12
30-40	733.28
40-50	708.25
50-60	600.12
60-70	440.17
70-80	246.25
80-90	75.92
90-100	56.48
100-110	198.44
110-120	572.81
120-130	812.72
130-140	935.55
140-150	921.52
150-160	754.53
160-170	493.87
170-180	172.18

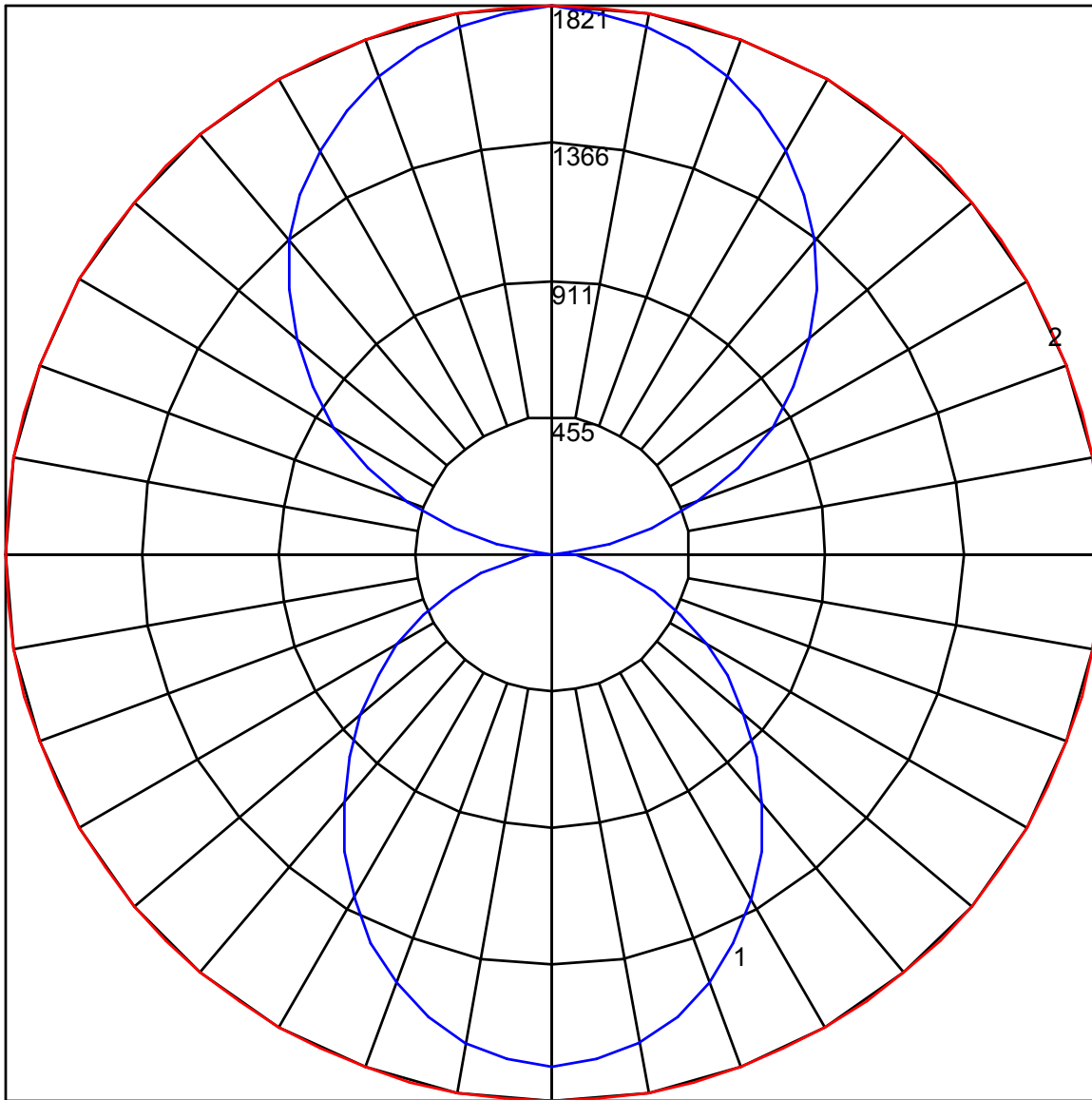
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	46	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	37	33	32	30	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	21
6	62	50	43	37	57	47	40	34	39	34	30	33	29	26	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	54	41	34	29	49	38	32	27	33	27	23	27	23	20	22	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	16	19	16	14	12

POLAR GRAPH



Maximum Candela = 1821.232 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)