



IES INDOOR REPORT

PHOTOMETRIC FILENAME : O-40-LED4-SO-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041502002
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 4/15/2015
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] O-40-LED4-SO-D9
 [LUMINAIRE] 48"DIA. X 5"H. LED FIXTURE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC,
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7670
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	128
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	3.00 ft (Diameter)
Luminous Width (90-270)	3.00 ft (Diameter)
Luminous Height	0.42 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2293	2297	2299
55	2040	2039	2043
65	1756	1754	1755
75	1294	1292	1291
85	541	535	526

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1993.488	1993.488	1993.488	1993.488	1993.488	1993.488	1993.488	1993.488	1993.488	1993.488
5	1982.647	1982.519	1982.412	1982.242	1982.114	1981.901	1981.859	1981.837	1981.944	1982.029
10	1950.420	1950.377	1950.271	1950.292	1950.441	1950.420	1950.377	1950.335	1950.548	1950.675
15	1897.511	1897.617	1897.702	1897.851	1897.894	1897.851	1897.851	1898.064	1898.341	1898.512
20	1826.795	1826.816	1826.816	1827.029	1827.221	1827.242	1827.327	1827.732	1828.136	1828.392
25	1737.462	1737.633	1737.654	1737.846	1738.272	1738.442	1738.740	1739.039	1739.337	1739.614
30	1633.753	1633.774	1633.880	1634.157	1634.562	1634.818	1635.052	1635.435	1635.755	1635.968
35	1517.966	1518.051	1518.072	1518.264	1518.498	1518.946	1519.286	1519.627	1519.883	1520.224
40	1390.975	1391.188	1391.082	1391.273	1391.529	1392.062	1392.615	1393.190	1393.723	1393.979
45	1255.742	1255.678	1255.422	1255.486	1255.678	1255.784	1255.805	1256.189	1257.254	1257.829
50	1112.627	1112.584	1112.307	1112.094	1112.116	1112.116	1112.222	1112.435	1112.648	1112.946
55	964.975	964.890	964.549	964.400	964.208	964.038	964.081	964.294	964.443	964.634
60	830.082	830.189	829.933	829.784	829.571	828.890	828.527	828.613	828.698	828.826
65	674.294	674.358	674.614	673.996	674.124	673.783	673.783	673.804	673.591	673.421
70	518.123	517.824	517.846	517.611	517.590	517.462	517.420	517.441	517.292	517.249
75	366.658	366.317	366.488	366.381	366.360	366.232	366.126	366.168	366.104	366.041
80	223.224	223.203	223.054	222.990	222.990	222.947	222.798	222.606	222.415	222.202
85	94.189	94.189	94.103	94.061	93.997	93.805	93.614	93.464	93.294	93.038
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	47.180	47.073	46.754	46.178	45.518	44.730	43.985	43.303	42.707	42.238
100	83.240	83.049	82.857	82.964	82.772	82.516	82.218	81.835	81.622	81.217
105	130.164	130.313	131.059	131.442	131.655	131.847	131.677	131.634	131.038	130.633
110	183.904	183.734	184.373	184.735	184.671	184.586	184.288	184.224	184.437	184.437
115	242.053	241.819	242.160	241.947	242.777	243.161	242.586	242.415	241.925	241.350
120	300.415	300.777	301.097	302.013	302.354	301.608	300.628	300.479	300.671	300.266
125	355.433	356.051	354.986	354.837	356.306	356.924	357.648	358.607	358.628	358.820
130	418.098	418.502	418.162	418.758	420.952	422.997	423.849	424.573	425.446	425.830
135	486.386	486.258	486.023	486.833	489.474	490.986	492.222	493.819	496.311	497.611
140	551.564	551.713	552.096	552.245	555.589	560.041	563.854	566.452	567.922	568.028
145	623.238	622.940	623.046	623.984	626.327	628.840	631.183	633.718	634.868	635.890
150	691.185	689.566	689.971	690.908	691.760	693.336	695.850	696.467	697.809	698.278
155	749.952	749.803	751.123	749.547	750.080	751.911	754.105	754.787	756.107	756.171
160	803.713	803.628	800.987	801.626	802.115	803.266	805.545	806.205	806.290	806.588
165	845.908	847.229	845.610	843.927	845.056	845.759	846.505	848.123	848.400	847.889
170	877.155	877.496	877.028	875.664	876.048	877.411	878.093	879.860	879.775	878.838
175	893.769	893.322	893.237	894.174	895.026	897.199	897.965	899.201	899.307	897.667
180	903.077	903.077	903.077	903.077	903.077	903.077	903.077	903.077	903.077	903.077

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	1993.488	1993.488	1993.488	1993.488	1993.488	1993.488	1993.488	1993.488	1993.488
5	1982.157	1982.199	1982.285	1982.455	1982.540	1982.519	1982.647	1982.775	1983.030
10	1950.761	1950.931	1951.080	1951.208	1951.336	1951.336	1951.442	1951.677	1951.890
15	1898.810	1899.108	1899.300	1899.555	1899.726	1899.619	1899.619	1899.768	1899.896
20	1828.733	1828.967	1829.116	1829.308	1829.500	1829.564	1829.734	1829.713	1829.585
25	1739.976	1740.274	1740.572	1740.679	1740.849	1740.956	1741.105	1741.019	1740.934
30	1636.373	1636.628	1636.969	1637.203	1637.395	1637.523	1637.523	1637.608	1637.565
35	1520.458	1520.799	1521.267	1521.459	1521.757	1521.842	1521.800	1521.842	1521.672
40	1394.341	1394.660	1394.916	1395.278	1395.512	1395.619	1395.555	1395.491	1395.299
45	1258.234	1258.511	1258.787	1259.000	1259.299	1259.448	1259.448	1259.277	1259.256
50	1113.564	1114.118	1114.501	1114.799	1114.970	1115.289	1115.289	1115.076	1115.225
55	964.826	965.082	965.486	965.721	965.998	966.275	966.445	966.381	966.338
60	829.017	829.166	829.401	829.529	829.720	829.997	830.253	830.040	829.976

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65	673.485	673.613	673.762	673.889	673.868	673.911	674.060	673.889	673.826
70	517.185	517.356	517.462	517.420	517.526	517.356	517.505	517.313	516.972
75	365.998	366.083	366.062	366.041	366.104	366.104	366.211	366.041	365.806
80	222.074	222.053	222.010	221.967	221.989	222.031	222.116	221.882	221.541
85	92.825	92.719	92.549	92.378	92.165	91.973	91.931	91.590	91.505
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	42.004	42.046	42.259	42.281	42.579	42.962	43.069	42.195	41.833
100	81.004	80.855	80.897	80.791	80.940	80.961	80.450	79.151	79.044
105	131.016	131.059	131.080	130.654	129.951	129.589	128.524	126.991	126.799
110	184.352	184.224	184.096	183.521	183.180	182.711	181.370	180.752	180.518
115	241.862	241.798	241.499	241.904	241.436	240.094	239.369	238.368	237.985
120	300.926	301.289	301.757	301.906	301.267	299.734	298.839	298.307	297.263
125	359.267	360.077	360.268	360.140	359.523	357.627	357.116	356.796	355.561
130	427.150	427.640	427.406	426.788	425.233	424.296	423.614	423.380	422.762
135	498.314	498.143	497.568	496.546	495.246	493.904	493.415	493.372	493.031
140	568.114	567.815	566.495	565.153	563.385	560.829	560.616	560.062	559.210
145	635.166	634.122	632.525	631.652	631.034	629.798	629.266	628.946	628.776
150	698.448	697.703	696.851	695.765	694.657	694.785	693.762	694.529	695.488
155	756.406	756.129	755.724	754.489	752.529	752.124	753.040	751.336	751.762
160	806.865	806.823	806.290	804.544	803.393	803.244	801.945	805.374	804.395
165	848.336	848.102	846.313	845.631	845.056	843.182	845.014	847.165	846.079
170	879.647	878.987	877.901	877.006	875.899	875.792	875.728	875.579	875.430
175	899.371	898.775	897.880	896.666	894.728	894.089	893.343	892.065	892.790
180	903.077	903.077	903.077	903.077	903.077	903.077	903.077	903.077	903.077

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	723.73	N.A.	9.40
0-30	1525.09	N.A.	19.90
0-40	2475.97	N.A.	32.30
0-60	4312.69	N.A.	56.20
0-80	5368.27	N.A.	70.00
0-90	5479.46	N.A.	71.40
10-90	5291.23	N.A.	69.00
20-40	1752.24	N.A.	22.80
20-50	2722.2	N.A.	35.50
40-70	2503.84	N.A.	32.60
60-80	1055.59	N.A.	13.80
70-80	388.46	N.A.	5.10
80-90	111.19	N.A.	1.40
90-110	184.82	N.A.	2.40
90-120	424.27	N.A.	5.50
90-130	746.35	N.A.	9.70
90-150	1520.68	N.A.	19.80
90-180	2190.48	N.A.	28.60
110-180	2005.66	N.A.	26.10
0-180	7669.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	188.23
10-20	535.50
20-30	801.36
30-40	950.88
40-50	969.96
50-60	866.75
60-70	667.13
70-80	388.46
80-90	111.19
90-100	45.98
100-110	138.84
110-120	239.45
120-130	322.09
130-140	380.49
140-150	393.83
150-160	346.57
160-170	238.29
170-180	84.95

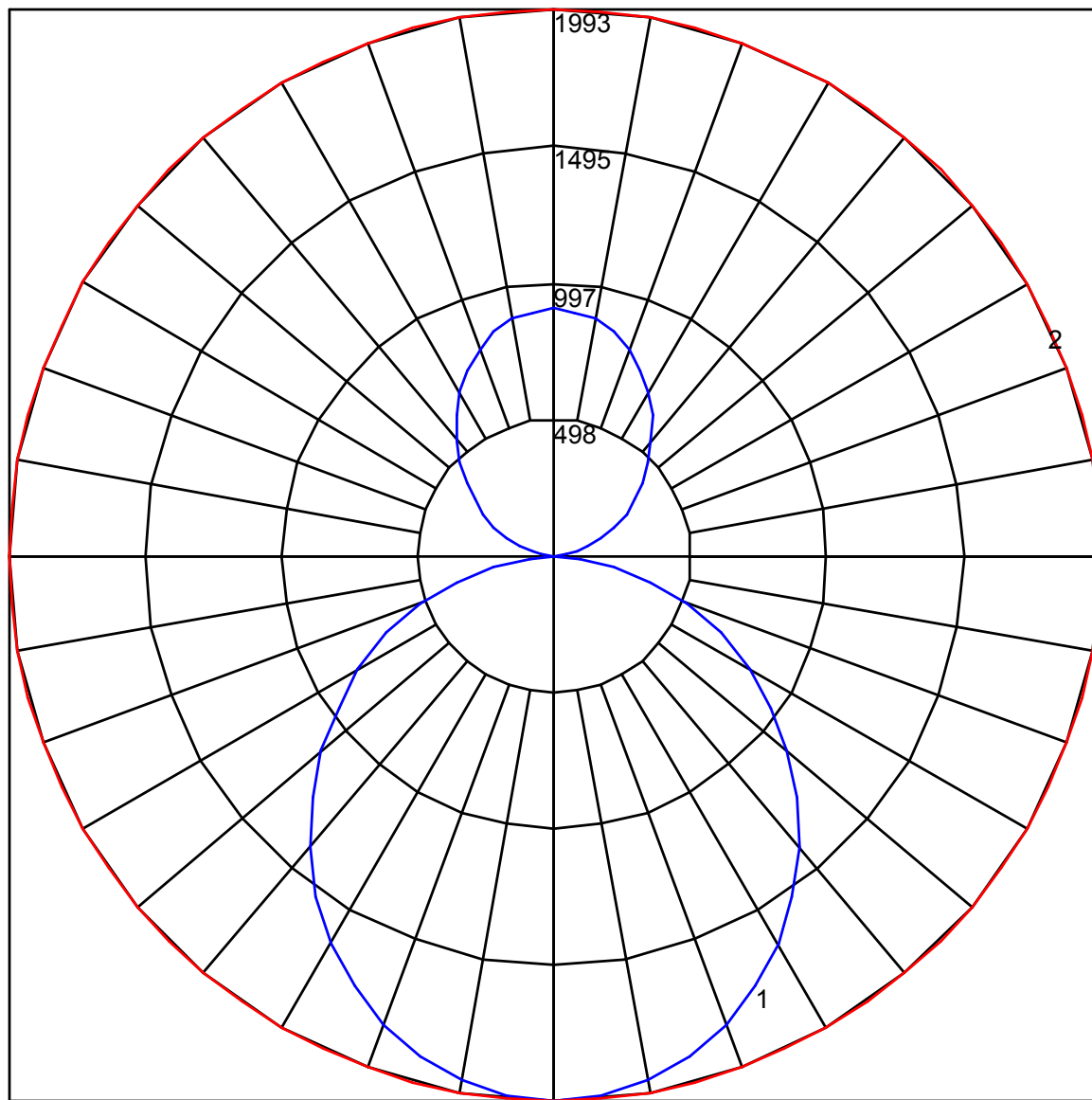
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	102	98	94	90	97	93	89	86	83	81	78	75	73	71	67	65	64	60
2	93	85	79	73	88	81	75	70	73	68	64	65	62	59	58	56	53	50
3	85	75	67	61	80	71	64	58	64	58	54	58	53	49	52	48	45	42
4	78	66	58	51	73	63	55	50	57	51	46	51	46	42	46	42	39	36
5	71	59	50	44	67	56	48	43	51	45	40	46	41	37	41	37	34	31
6	66	53	44	38	62	51	43	37	46	39	35	42	36	32	38	33	30	27
7	61	48	40	34	57	46	38	33	42	35	31	38	32	28	34	30	26	24
8	57	44	36	30	53	42	34	29	38	32	27	35	29	25	31	27	24	21
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	19
10	49	37	29	24	47	35	28	23	32	26	22	30	24	21	27	23	19	17

POLAR GRAPH



Maximum Candela = 1993.488 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)