



IES INDOOR REPORT

PHOTOMETRIC FILENAME : O-40-TU-HO-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041502002
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] O-40-TU-HO-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	7274
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	49
Total Luminaire Watts	149
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	2175	2178	2181
55	1935	1934	1938
65	1665	1663	1664
75	1227	1225	1225
85	513	507	499

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	1890.538	1890.538	1890.538	1890.538	1890.538	1890.538	1890.538	1890.538	1890.538	1890.538
5	1880.256	1880.135	1880.034	1879.873	1879.751	1879.549	1879.509	1879.489	1879.590	1879.671
10	1849.694	1849.653	1849.552	1849.573	1849.714	1849.694	1849.653	1849.613	1849.815	1849.936
15	1799.517	1799.618	1799.699	1799.840	1799.881	1799.840	1799.840	1800.042	1800.305	1800.466
20	1732.453	1732.473	1732.473	1732.675	1732.857	1732.877	1732.958	1733.342	1733.726	1733.968
25	1647.734	1647.896	1647.916	1648.098	1648.502	1648.663	1648.946	1649.229	1649.512	1649.774
30	1549.380	1549.401	1549.502	1549.764	1550.148	1550.390	1550.613	1550.976	1551.279	1551.481
35	1439.573	1439.654	1439.674	1439.856	1440.078	1440.502	1440.826	1441.149	1441.391	1441.714
40	1319.141	1319.343	1319.242	1319.424	1319.666	1320.171	1320.696	1321.242	1321.747	1321.989
45	1190.891	1190.830	1190.588	1190.649	1190.830	1190.931	1190.952	1191.315	1192.325	1192.871
50	1055.167	1055.127	1054.864	1054.662	1054.682	1054.682	1054.783	1054.985	1055.187	1055.470
55	915.141	915.060	914.737	914.595	914.414	914.252	914.292	914.494	914.636	914.818
60	787.214	787.315	787.073	786.931	786.729	786.083	785.740	785.820	785.901	786.022
65	639.471	639.532	639.774	639.189	639.310	638.987	638.987	639.007	638.805	638.643
70	491.365	491.082	491.102	490.880	490.860	490.739	490.698	490.719	490.577	490.537
75	347.723	347.400	347.561	347.460	347.440	347.319	347.218	347.258	347.198	347.137
80	211.696	211.676	211.534	211.474	211.474	211.433	211.292	211.110	210.928	210.726
85	89.324	89.324	89.244	89.203	89.143	88.961	88.779	88.638	88.476	88.234
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	44.743	44.642	44.339	43.794	43.167	42.420	41.713	41.067	40.501	40.057
100	78.942	78.760	78.578	78.679	78.497	78.255	77.972	77.608	77.406	77.023
105	123.442	123.584	124.291	124.654	124.856	125.038	124.876	124.836	124.270	123.887
110	174.407	174.245	174.851	175.195	175.134	175.053	174.770	174.710	174.912	174.912
115	229.553	229.331	229.654	229.452	230.240	230.603	230.058	229.896	229.432	228.886
120	284.901	285.244	285.547	286.416	286.739	286.032	285.103	284.961	285.143	284.759
125	337.077	337.663	336.653	336.512	337.906	338.491	339.178	340.087	340.107	340.289
130	396.506	396.890	396.566	397.132	399.213	401.152	401.960	402.647	403.475	403.838
135	461.267	461.146	460.924	461.691	464.196	465.630	466.802	468.317	470.680	471.912
140	523.079	523.220	523.584	523.725	526.897	531.119	534.734	537.199	538.593	538.694
145	591.052	590.769	590.870	591.759	593.981	596.365	598.587	600.990	602.081	603.051
150	655.490	653.955	654.339	655.227	656.035	657.530	659.914	660.500	661.772	662.217
155	711.222	711.080	712.333	710.838	711.343	713.080	715.161	715.807	717.060	717.120
160	762.207	762.126	759.621	760.227	760.692	761.782	763.944	764.570	764.651	764.934
165	802.223	803.475	801.940	800.344	801.415	802.081	802.788	804.324	804.586	804.101
170	831.856	832.179	831.735	830.442	830.806	832.099	832.745	834.422	834.341	833.452
175	847.612	847.188	847.107	847.996	848.804	850.864	851.592	852.763	852.864	851.309
180	856.440	856.440	856.440	856.440	856.440	856.440	856.440	856.440	856.440	856.440

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0	1890.538	1890.538	1890.538	1890.538	1890.538	1890.538	1890.538	1890.538	1890.538
5	1879.792	1879.832	1879.913	1880.075	1880.155	1880.135	1880.256	1880.378	1880.620
10	1850.017	1850.179	1850.320	1850.441	1850.562	1850.562	1850.663	1850.886	1851.088
15	1800.749	1801.032	1801.214	1801.456	1801.618	1801.517	1801.517	1801.658	1801.779
20	1734.291	1734.513	1734.655	1734.837	1735.018	1735.079	1735.241	1735.220	1735.099
25	1650.118	1650.401	1650.683	1650.784	1650.946	1651.047	1651.188	1651.108	1651.027
30	1551.865	1552.107	1552.431	1552.653	1552.835	1552.956	1552.956	1553.037	1552.996
35	1441.937	1442.260	1442.704	1442.886	1443.169	1443.250	1443.209	1443.250	1443.088
40	1322.332	1322.635	1322.878	1323.221	1323.443	1323.544	1323.484	1323.423	1323.241
45	1193.254	1193.517	1193.780	1193.982	1194.264	1194.406	1194.406	1194.244	1194.224
50	1056.056	1056.581	1056.945	1057.228	1057.389	1057.692	1057.692	1057.490	1057.632
55	914.999	915.242	915.626	915.848	916.110	916.373	916.535	916.474	916.434
60	786.204	786.346	786.568	786.689	786.871	787.133	787.376	787.174	787.113

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CANDELA TABULATION - (Cont.)

65	638.704	638.825	638.966	639.088	639.067	639.108	639.249	639.088	639.027
70	490.476	490.638	490.739	490.698	490.799	490.638	490.779	490.597	490.274
75	347.097	347.177	347.157	347.137	347.198	347.198	347.299	347.137	346.915
80	210.605	210.585	210.545	210.504	210.524	210.565	210.646	210.423	210.100
85	88.032	87.931	87.769	87.607	87.405	87.224	87.183	86.860	86.779
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	39.834	39.875	40.077	40.097	40.380	40.743	40.844	40.016	39.673
100	76.821	76.679	76.720	76.619	76.760	76.780	76.295	75.063	74.962
105	124.250	124.291	124.311	123.907	123.240	122.897	121.887	120.432	120.251
110	174.831	174.710	174.589	174.043	173.720	173.276	172.003	171.417	171.195
115	229.371	229.310	229.028	229.411	228.967	227.694	227.008	226.058	225.695
120	285.386	285.729	286.173	286.315	285.709	284.254	283.406	282.901	281.911
125	340.713	341.481	341.663	341.542	340.956	339.158	338.673	338.370	337.199
130	405.091	405.555	405.333	404.747	403.273	402.384	401.738	401.515	400.930
135	472.579	472.417	471.872	470.902	469.670	468.398	467.933	467.893	467.569
140	538.774	538.492	537.239	535.967	534.290	531.866	531.664	531.139	530.331
145	602.364	601.374	599.859	599.031	598.445	597.274	596.769	596.466	596.304
150	662.378	661.671	660.863	659.833	658.783	658.904	657.934	658.661	659.570
155	717.342	717.080	716.696	715.524	713.666	713.282	714.151	712.535	712.939
160	765.196	765.156	764.651	762.994	761.904	761.762	760.530	763.782	762.853
165	804.526	804.303	802.607	801.960	801.415	799.637	801.374	803.415	802.384
170	834.220	833.593	832.563	831.715	830.664	830.563	830.503	830.361	830.220
175	852.925	852.359	851.511	850.359	848.521	847.915	847.208	845.996	846.683
180	856.440	856.440	856.440	856.440	856.440	856.440	856.440	856.440	856.440

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	686.36	N.A.	9.40
0-30	1446.33	N.A.	19.90
0-40	2348.1	N.A.	32.30
0-60	4089.97	N.A.	56.20
0-80	5091.04	N.A.	70.00
0-90	5196.49	N.A.	71.40
10-90	5017.98	N.A.	69.00
20-40	1661.75	N.A.	22.80
20-50	2581.62	N.A.	35.50
40-70	2374.54	N.A.	32.60
60-80	1001.07	N.A.	13.80
70-80	368.40	N.A.	5.10
80-90	105.45	N.A.	1.40
90-110	175.27	N.A.	2.40
90-120	402.36	N.A.	5.50
90-130	707.81	N.A.	9.70
90-150	1442.15	N.A.	19.80
90-180	2077.36	N.A.	28.60
110-180	1902.08	N.A.	26.10
0-180	7273.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.51
10-20	507.85
20-30	759.98
30-40	901.77
40-50	919.87
50-60	821.99
60-70	632.67
70-80	368.40
80-90	105.45
90-100	43.61
100-110	131.67
110-120	227.09
120-130	305.45
130-140	360.84
140-150	373.50
150-160	328.67
160-170	225.98
170-180	80.56

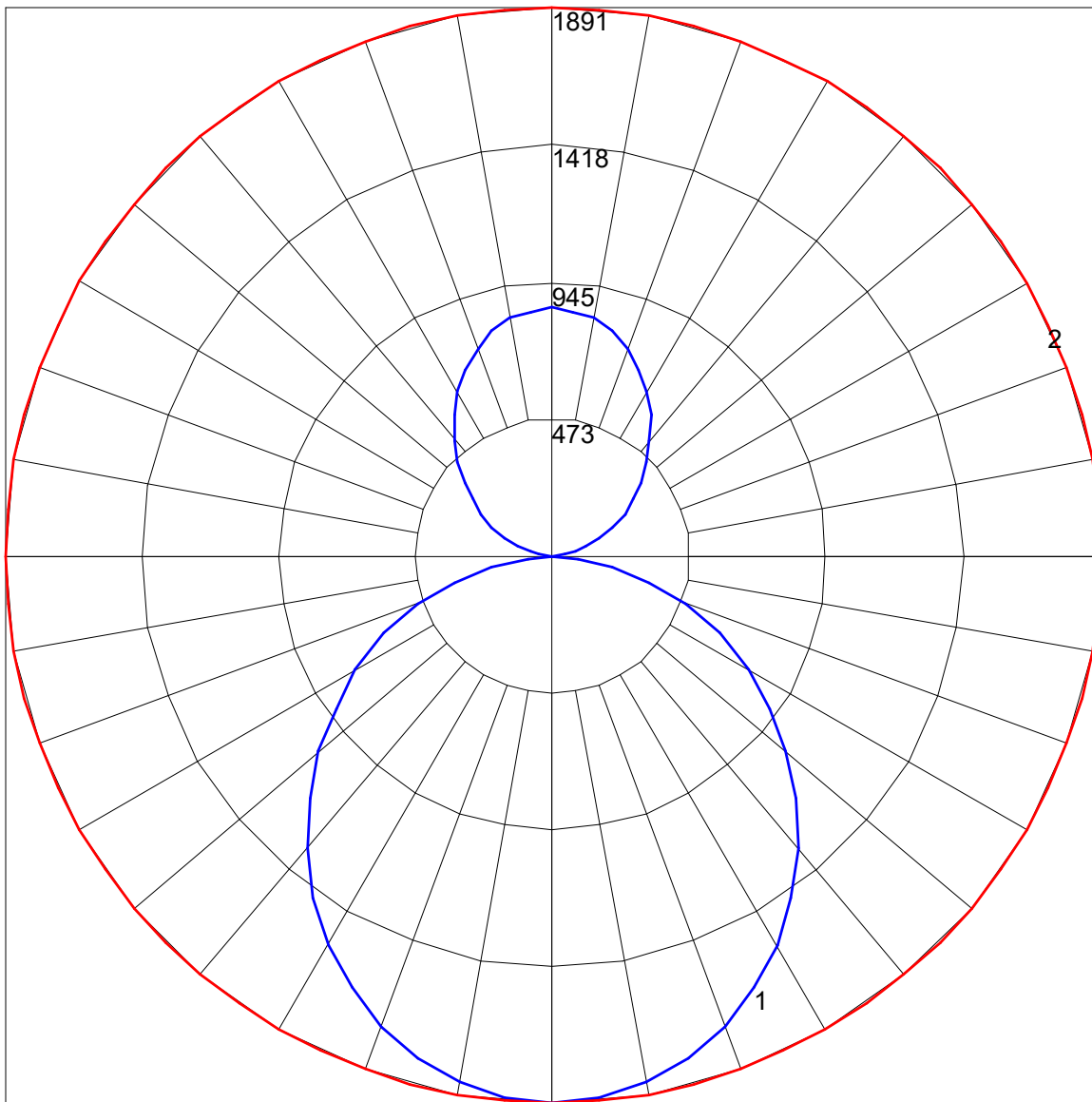
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1890.538 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.)