



IES INDOOR REPORT

PHOTOMETRIC FILENAME : O-30-TU-MO-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041502002
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] O-30-TU-MO-D9
 [LUMINAIRE] 36-3/4"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	3061
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	57
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	915	917	918
55	814	814	815
65	701	700	700
75	516	516	515
85	216	213	210

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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	795.524	795.524	795.524	795.524	795.524	795.524	795.524	795.524	795.524	795.524
5	791.197	791.146	791.104	791.036	790.985	790.900	790.883	790.874	790.917	790.951
10	778.337	778.320	778.277	778.286	778.345	778.337	778.320	778.303	778.388	778.439
15	757.223	757.265	757.299	757.359	757.376	757.359	757.359	757.444	757.554	757.622
20	729.003	729.011	729.011	729.096	729.173	729.181	729.215	729.377	729.538	729.640
25	693.354	693.422	693.430	693.507	693.677	693.745	693.864	693.983	694.102	694.212
30	651.967	651.976	652.018	652.129	652.290	652.392	652.486	652.639	652.766	652.851
35	605.761	605.795	605.804	605.880	605.974	606.152	606.288	606.424	606.526	606.662
40	555.084	555.169	555.127	555.203	555.305	555.518	555.739	555.968	556.181	556.283
45	501.118	501.092	500.990	501.016	501.092	501.135	501.143	501.296	501.721	501.951
50	444.006	443.989	443.879	443.794	443.802	443.802	443.845	443.930	444.015	444.134
55	385.084	385.050	384.914	384.855	384.778	384.710	384.727	384.812	384.872	384.948
60	331.254	331.296	331.194	331.135	331.050	330.778	330.633	330.667	330.701	330.752
65	269.085	269.110	269.212	268.966	269.017	268.881	268.881	268.889	268.804	268.736
70	206.763	206.644	206.652	206.559	206.550	206.499	206.482	206.491	206.431	206.414
75	146.319	146.183	146.251	146.209	146.200	146.149	146.107	146.124	146.098	146.073
80	89.080	89.072	89.012	88.987	88.987	88.970	88.910	88.834	88.757	88.672
85	37.587	37.587	37.553	37.536	37.511	37.434	37.358	37.298	37.230	37.128
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	18.828	18.785	18.658	18.428	18.165	17.850	17.553	17.281	17.043	16.856
100	33.218	33.142	33.065	33.108	33.031	32.929	32.810	32.657	32.572	32.411
105	51.944	52.003	52.301	52.454	52.539	52.615	52.547	52.530	52.292	52.131
110	73.389	73.321	73.576	73.721	73.695	73.661	73.542	73.517	73.602	73.602
115	96.594	96.501	96.637	96.552	96.883	97.036	96.807	96.739	96.543	96.314
120	119.884	120.029	120.156	120.522	120.658	120.360	119.969	119.910	119.986	119.825
125	141.840	142.086	141.661	141.602	142.188	142.435	142.724	143.106	143.115	143.191
130	166.847	167.008	166.872	167.110	167.986	168.802	169.142	169.431	169.779	169.932
135	194.098	194.047	193.953	194.276	195.330	195.934	196.427	197.064	198.059	198.577
140	220.108	220.167	220.320	220.380	221.714	223.491	225.012	226.049	226.636	226.678
145	248.710	248.591	248.634	249.008	249.943	250.946	251.881	252.892	253.351	253.759
150	275.825	275.179	275.341	275.715	276.055	276.684	277.687	277.933	278.469	278.656
155	299.277	299.217	299.744	299.115	299.328	300.059	300.934	301.206	301.733	301.759
160	320.731	320.697	319.643	319.898	320.093	320.552	321.462	321.725	321.759	321.878
165	337.569	338.096	337.450	336.779	337.229	337.510	337.807	338.453	338.564	338.360
170	350.039	350.175	349.988	349.444	349.597	350.141	350.413	351.118	351.084	350.710
175	356.669	356.490	356.456	356.830	357.170	358.037	358.343	358.836	358.879	358.224
180	360.383	360.383	360.383	360.383	360.383	360.383	360.383	360.383	360.383	360.383

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	795.524	795.524	795.524	795.524	795.524	795.524	795.524	795.524	795.524
5	791.002	791.019	791.053	791.121	791.155	791.146	791.197	791.248	791.350
10	778.473	778.541	778.600	778.651	778.702	778.702	778.745	778.838	778.923
15	757.741	757.860	757.937	758.039	758.107	758.064	758.064	758.124	758.175
20	729.776	729.870	729.929	730.006	730.082	730.108	730.176	730.167	730.116
25	694.357	694.476	694.595	694.637	694.705	694.748	694.807	694.773	694.739
30	653.013	653.115	653.251	653.344	653.421	653.472	653.472	653.506	653.489
35	606.756	606.892	607.079	607.155	607.274	607.308	607.291	607.308	607.240
40	556.427	556.555	556.657	556.801	556.895	556.937	556.912	556.886	556.810
45	502.112	502.223	502.333	502.418	502.537	502.597	502.597	502.529	502.520
50	444.380	444.601	444.754	444.873	444.941	445.069	445.069	444.984	445.043
55	385.025	385.127	385.288	385.382	385.492	385.603	385.671	385.645	385.628
60	330.829	330.888	330.982	331.033	331.109	331.220	331.322	331.237	331.211

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CANDELA TABULATION - (Cont.)

65	268.762	268.813	268.872	268.923	268.915	268.932	268.991	268.923	268.898
70	206.389	206.457	206.499	206.482	206.525	206.457	206.516	206.440	206.304
75	146.056	146.090	146.081	146.073	146.098	146.098	146.141	146.073	145.979
80	88.621	88.613	88.596	88.579	88.587	88.604	88.638	88.545	88.409
85	37.043	37.001	36.933	36.865	36.780	36.703	36.686	36.550	36.516
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	16.762	16.779	16.864	16.873	16.992	17.145	17.187	16.839	16.694
100	32.326	32.266	32.283	32.241	32.300	32.309	32.105	31.586	31.544
105	52.284	52.301	52.309	52.139	51.859	51.714	51.289	50.677	50.601
110	73.568	73.517	73.466	73.236	73.100	72.913	72.378	72.131	72.038
115	96.518	96.492	96.373	96.535	96.348	95.812	95.523	95.124	94.971
120	120.088	120.233	120.420	120.479	120.224	119.612	119.255	119.043	118.626
125	143.370	143.693	143.769	143.718	143.472	142.715	142.511	142.384	141.891
130	170.459	170.655	170.561	170.315	169.694	169.320	169.048	168.955	168.708
135	198.858	198.790	198.560	198.152	197.634	197.098	196.903	196.886	196.750
140	226.712	226.593	226.066	225.531	224.825	223.805	223.720	223.499	223.159
145	253.470	253.054	252.416	252.068	251.821	251.328	251.116	250.988	250.920
150	278.724	278.426	278.086	277.653	277.211	277.262	276.854	277.160	277.542
155	301.852	301.742	301.580	301.087	300.305	300.144	300.509	299.829	299.999
160	321.989	321.972	321.759	321.062	320.603	320.544	320.025	321.394	321.003
165	338.538	338.445	337.731	337.459	337.229	336.481	337.212	338.071	337.637
170	351.033	350.770	350.336	349.979	349.537	349.495	349.469	349.410	349.350
175	358.904	358.666	358.309	357.825	357.051	356.796	356.499	355.989	356.278
180	360.383	360.383	360.383	360.383	360.383	360.383	360.383	360.383	360.383

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	288.81	N.A.	9.40
0-30	608.60	N.A.	19.90
0-40	988.06	N.A.	32.30
0-60	1721.03	N.A.	56.20
0-80	2142.27	N.A.	70.00
0-90	2186.64	N.A.	71.40
10-90	2111.53	N.A.	69.00
20-40	699.25	N.A.	22.80
20-50	1086.32	N.A.	35.50
40-70	999.19	N.A.	32.60
60-80	421.24	N.A.	13.80
70-80	155.02	N.A.	5.10
80-90	44.37	N.A.	1.40
90-110	73.75	N.A.	2.40
90-120	169.31	N.A.	5.50
90-130	297.84	N.A.	9.70
90-150	606.84	N.A.	19.80
90-180	874.14	N.A.	28.60
110-180	800.38	N.A.	26.10
0-180	3060.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.11
10-20	213.70
20-30	319.79
30-40	379.46
40-50	387.07
50-60	345.89
60-70	266.22
70-80	155.02
80-90	44.37
90-100	18.35
100-110	55.40
110-120	95.56
120-130	128.53
130-140	151.84
140-150	157.16
150-160	138.30
160-170	95.09
170-180	33.90

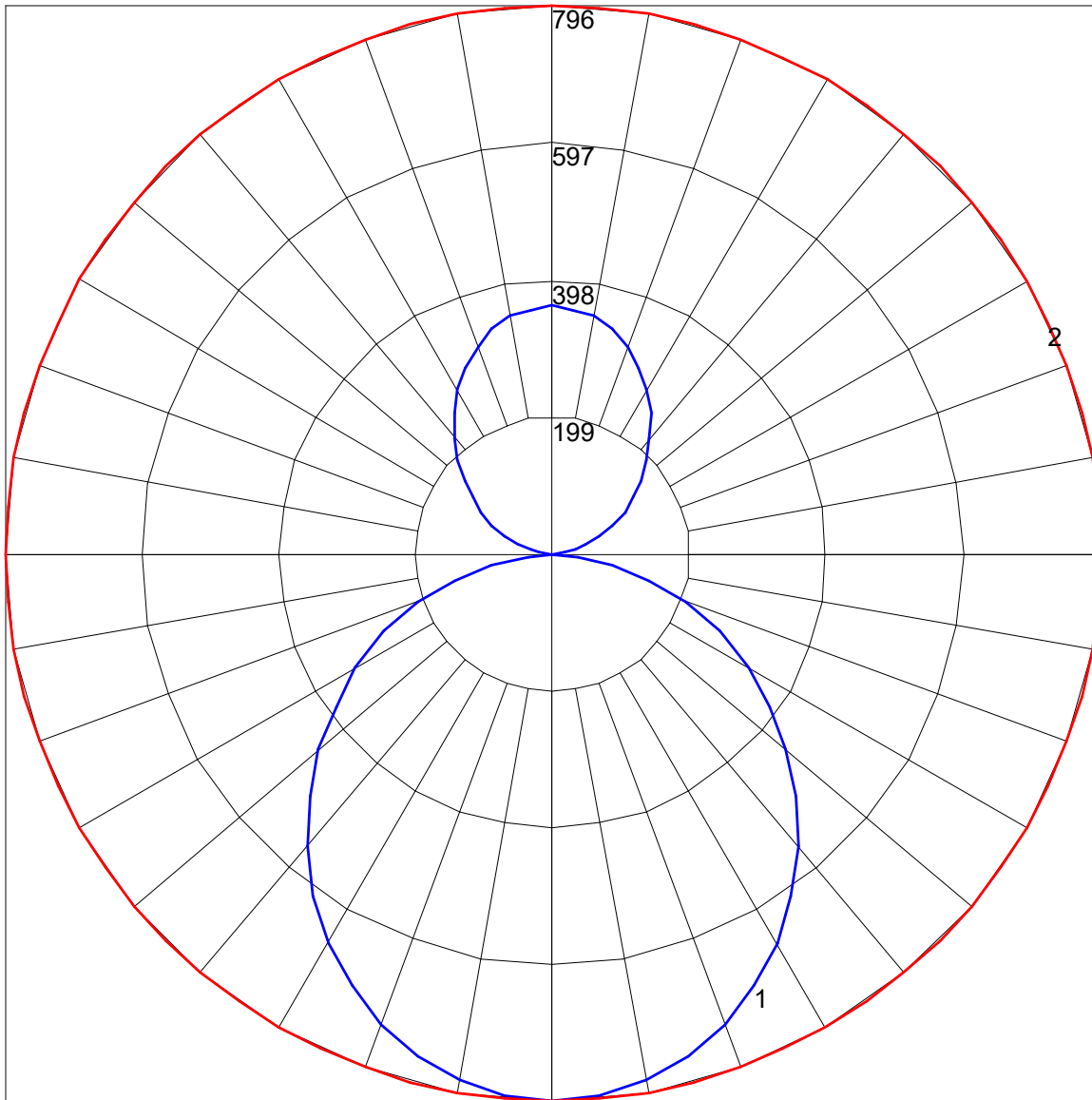
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 795.524 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.)