



IES INDOOR REPORT

PHOTOMETRIC FILENAME : O-20-TU-MO-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041502002
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] O-20-TU-MO-D9
 [LUMINAIRE] 24"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	2341
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	40
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	700	701	702
55	623	622	623
65	536	535	536
75	395	394	394
85	165	163	160

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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	608.341	608.341	608.341	608.341	608.341	608.341	608.341	608.341	608.341	608.341
5	605.033	604.994	604.961	604.909	604.870	604.805	604.792	604.786	604.818	604.844
10	595.198	595.185	595.153	595.159	595.205	595.198	595.185	595.172	595.237	595.276
15	579.052	579.085	579.111	579.156	579.169	579.156	579.156	579.221	579.306	579.358
20	557.472	557.479	557.479	557.544	557.602	557.609	557.635	557.758	557.882	557.960
25	530.211	530.263	530.270	530.328	530.458	530.510	530.601	530.692	530.783	530.868
30	498.563	498.569	498.602	498.686	498.810	498.888	498.959	499.076	499.174	499.239
35	463.229	463.255	463.261	463.320	463.391	463.528	463.632	463.736	463.814	463.918
40	424.476	424.541	424.508	424.567	424.645	424.807	424.976	425.152	425.314	425.392
45	383.207	383.188	383.110	383.129	383.188	383.220	383.227	383.344	383.669	383.844
50	339.534	339.521	339.436	339.371	339.378	339.378	339.410	339.475	339.540	339.631
55	294.476	294.450	294.346	294.300	294.242	294.190	294.203	294.268	294.313	294.372
60	253.311	253.344	253.266	253.220	253.155	252.947	252.837	252.863	252.889	252.928
65	205.770	205.790	205.868	205.679	205.718	205.614	205.614	205.621	205.556	205.504
70	158.112	158.021	158.028	157.956	157.950	157.911	157.898	157.904	157.859	157.846
75	111.891	111.787	111.839	111.806	111.800	111.761	111.728	111.741	111.722	111.702
80	68.120	68.113	68.068	68.048	68.048	68.035	67.990	67.931	67.873	67.808
85	28.743	28.743	28.717	28.704	28.684	28.626	28.567	28.522	28.470	28.392
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	14.397	14.365	14.267	14.092	13.890	13.650	13.422	13.214	13.032	12.889
100	25.402	25.343	25.285	25.317	25.259	25.181	25.090	24.973	24.908	24.784
105	39.721	39.767	39.994	40.111	40.176	40.235	40.183	40.170	39.988	39.864
110	56.121	56.069	56.264	56.374	56.355	56.329	56.238	56.218	56.283	56.283
115	73.866	73.794	73.898	73.833	74.087	74.204	74.028	73.976	73.827	73.651
120	91.676	91.786	91.884	92.163	92.267	92.040	91.741	91.695	91.754	91.630
125	108.465	108.654	108.329	108.283	108.732	108.920	109.141	109.434	109.440	109.499
130	127.588	127.712	127.608	127.790	128.459	129.083	129.343	129.564	129.831	129.948
135	148.427	148.388	148.317	148.564	149.370	149.831	150.208	150.696	151.456	151.853
140	168.317	168.363	168.480	168.525	169.546	170.904	172.068	172.861	173.309	173.342
145	190.190	190.099	190.131	190.417	191.132	191.899	192.614	193.388	193.739	194.051
150	210.925	210.431	210.554	210.840	211.100	211.581	212.348	212.537	212.946	213.089
155	228.858	228.813	229.216	228.735	228.897	229.456	230.126	230.334	230.737	230.756
160	245.264	245.238	244.432	244.627	244.777	245.128	245.823	246.025	246.051	246.142
165	258.141	258.544	258.050	257.536	257.881	258.095	258.323	258.817	258.901	258.745
170	267.676	267.780	267.637	267.221	267.338	267.754	267.962	268.502	268.476	268.190
175	272.746	272.610	272.584	272.870	273.130	273.793	274.027	274.404	274.436	273.936
180	275.587	275.587	275.587	275.587	275.587	275.587	275.587	275.587	275.587	275.587

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	608.341	608.341	608.341	608.341	608.341	608.341	608.341	608.341	608.341
5	604.883	604.896	604.922	604.974	605.000	604.994	605.033	605.072	605.150
10	595.302	595.354	595.400	595.439	595.478	595.478	595.510	595.582	595.647
15	579.449	579.540	579.598	579.676	579.728	579.696	579.696	579.741	579.780
20	558.064	558.135	558.181	558.239	558.298	558.317	558.369	558.363	558.324
25	530.978	531.069	531.160	531.193	531.245	531.277	531.323	531.297	531.271
30	499.362	499.440	499.544	499.616	499.674	499.713	499.713	499.739	499.726
35	463.989	464.093	464.236	464.295	464.386	464.412	464.399	464.412	464.360
40	425.503	425.600	425.678	425.789	425.860	425.893	425.873	425.854	425.795
45	383.968	384.052	384.137	384.202	384.293	384.338	384.338	384.286	384.280
50	339.820	339.989	340.106	340.197	340.249	340.346	340.346	340.281	340.327
55	294.430	294.508	294.632	294.703	294.788	294.872	294.924	294.905	294.892
60	252.986	253.032	253.103	253.142	253.201	253.285	253.363	253.298	253.279

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CANDELA TABULATION - (Cont.)

65	205.523	205.562	205.608	205.647	205.640	205.653	205.699	205.647	205.627
70	157.826	157.878	157.911	157.898	157.930	157.878	157.924	157.865	157.761
75	111.689	111.715	111.709	111.702	111.722	111.722	111.754	111.702	111.631
80	67.769	67.762	67.749	67.736	67.743	67.756	67.782	67.710	67.606
85	28.327	28.294	28.242	28.190	28.125	28.067	28.054	27.950	27.924
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	12.818	12.831	12.896	12.902	12.993	13.110	13.143	12.876	12.766
100	24.719	24.674	24.687	24.654	24.700	24.706	24.550	24.154	24.121
105	39.981	39.994	40.001	39.871	39.656	39.546	39.221	38.753	38.694
110	56.257	56.218	56.179	56.004	55.900	55.757	55.347	55.159	55.087
115	73.807	73.788	73.697	73.820	73.677	73.268	73.047	72.741	72.624
120	91.832	91.942	92.085	92.131	91.936	91.468	91.195	91.032	90.714
125	109.635	109.882	109.941	109.902	109.713	109.135	108.979	108.881	108.504
130	130.351	130.500	130.429	130.240	129.766	129.480	129.272	129.200	129.012
135	152.067	152.015	151.840	151.528	151.131	150.722	150.572	150.559	150.455
140	173.368	173.277	172.874	172.464	171.925	171.145	171.080	170.911	170.651
145	193.830	193.511	193.024	192.757	192.569	192.192	192.029	191.932	191.880
150	213.141	212.914	212.654	212.322	211.984	212.023	211.711	211.945	212.238
155	230.828	230.743	230.620	230.243	229.645	229.521	229.801	229.281	229.411
160	246.226	246.213	246.051	245.518	245.167	245.121	244.725	245.771	245.472
165	258.882	258.810	258.264	258.056	257.881	257.309	257.868	258.524	258.193
170	268.437	268.235	267.904	267.631	267.293	267.260	267.241	267.195	267.150
175	274.456	274.274	274.001	273.630	273.039	272.844	272.616	272.226	272.447
180	275.587	275.587	275.587	275.587	275.587	275.587	275.587	275.587	275.587

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	220.86	N.A.	9.40
0-30	465.40	N.A.	19.90
0-40	755.58	N.A.	32.30
0-60	1316.08	N.A.	56.20
0-80	1638.2	N.A.	70.00
0-90	1672.14	N.A.	71.40
10-90	1614.69	N.A.	69.00
20-40	534.72	N.A.	22.80
20-50	830.72	N.A.	35.50
40-70	764.08	N.A.	32.60
60-80	322.13	N.A.	13.80
70-80	118.54	N.A.	5.10
80-90	33.93	N.A.	1.40
90-110	56.40	N.A.	2.40
90-120	129.47	N.A.	5.50
90-130	227.76	N.A.	9.70
90-150	464.06	N.A.	19.80
90-180	668.46	N.A.	28.60
110-180	612.06	N.A.	26.10
0-180	2340.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.44
10-20	163.42
20-30	244.55
30-40	290.17
40-50	296.00
50-60	264.50
60-70	203.58
70-80	118.54
80-90	33.93
90-100	14.03
100-110	42.37
110-120	73.07
120-130	98.29
130-140	116.11
140-150	120.18
150-160	105.76
160-170	72.72
170-180	25.92

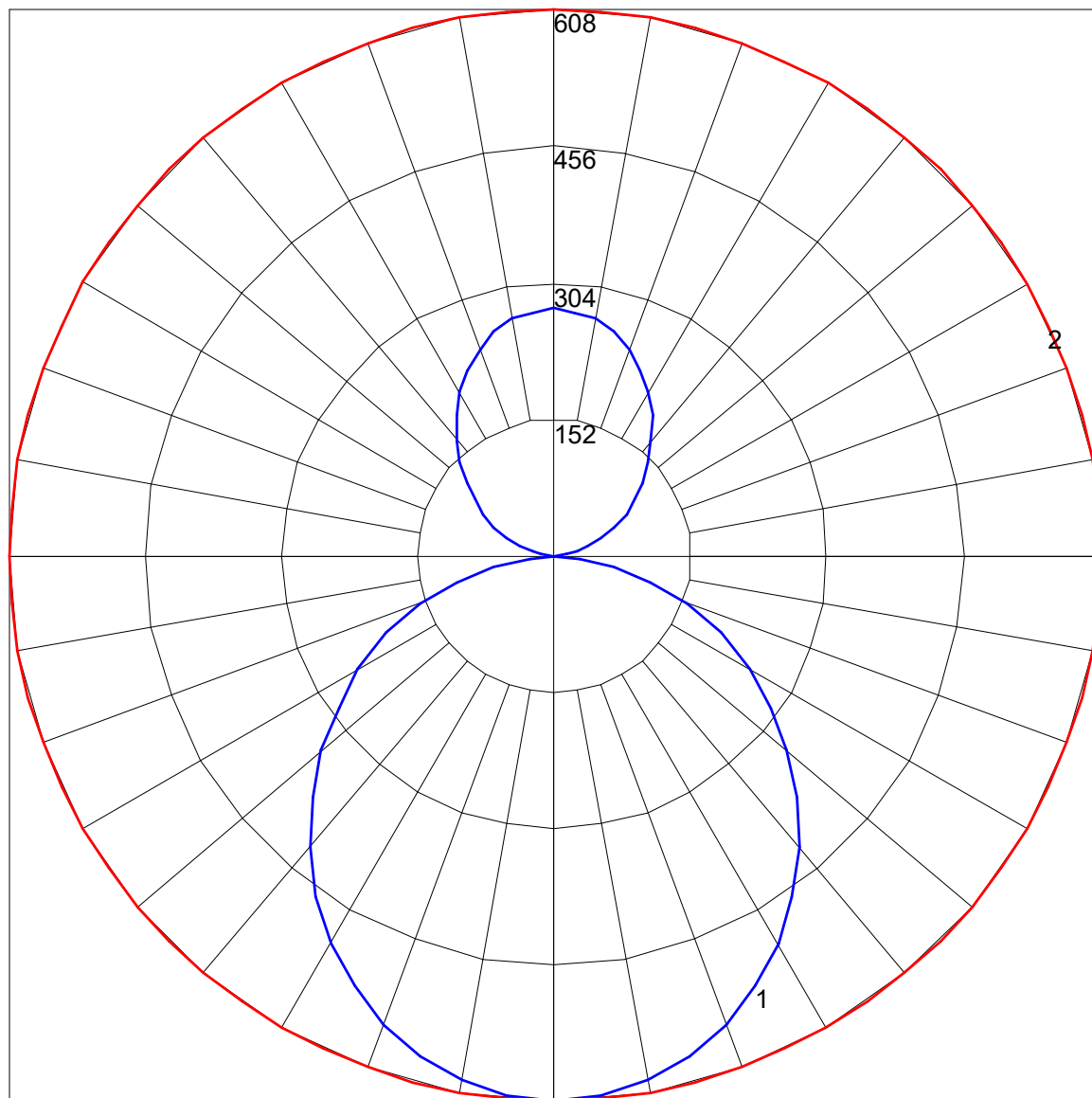
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	44	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	30	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 = 608.341 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.)