



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L041502002  
 [TESTLAB]  
 [ISSUE DATE]  
 [MANUFAC] PRUDENTIAL LTG.  
 [LUMCAT] O-30-TU-LO-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	2233
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	42
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	667	669	669
55	594	594	595
65	511	510	511
75	377	376	376
85	158	156	153

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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>
<b>0</b>	580.264	580.264	580.264	580.264	580.264	580.264	580.264	580.264	580.264	580.264
<b>5</b>	577.108	577.071	577.040	576.991	576.953	576.891	576.879	576.873	576.904	576.929
<b>10</b>	567.728	567.715	567.684	567.691	567.734	567.728	567.715	567.703	567.765	567.802
<b>15</b>	552.327	552.358	552.383	552.426	552.439	552.426	552.426	552.488	552.569	552.618
<b>20</b>	531.743	531.749	531.749	531.811	531.867	531.873	531.898	532.016	532.134	532.208
<b>25</b>	505.740	505.790	505.796	505.852	505.976	506.025	506.112	506.199	506.286	506.366
<b>30</b>	475.552	475.559	475.590	475.670	475.788	475.862	475.931	476.042	476.135	476.197
<b>35</b>	441.849	441.874	441.880	441.936	442.004	442.134	442.234	442.333	442.407	442.506
<b>40</b>	404.885	404.947	404.916	404.972	405.046	405.201	405.362	405.530	405.685	405.759
<b>45</b>	365.521	365.502	365.428	365.447	365.502	365.533	365.540	365.651	365.961	366.129
<b>50</b>	323.863	323.851	323.770	323.708	323.714	323.714	323.745	323.807	323.869	323.956
<b>55</b>	280.885	280.860	280.761	280.717	280.662	280.612	280.624	280.686	280.730	280.786
<b>60</b>	241.620	241.651	241.577	241.533	241.471	241.273	241.168	241.192	241.217	241.254
<b>65</b>	196.273	196.292	196.366	196.187	196.224	196.125	196.125	196.131	196.069	196.019
<b>70</b>	150.815	150.728	150.734	150.666	150.660	150.623	150.610	150.617	150.573	150.561
<b>75</b>	106.727	106.628	106.677	106.646	106.640	106.603	106.572	106.584	106.566	106.547
<b>80</b>	64.976	64.970	64.926	64.908	64.908	64.895	64.852	64.796	64.740	64.678
<b>85</b>	27.416	27.416	27.392	27.379	27.361	27.305	27.249	27.206	27.156	27.082
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	13.733	13.702	13.609	13.442	13.249	13.020	12.803	12.605	12.431	12.295
<b>100</b>	24.230	24.174	24.118	24.149	24.093	24.019	23.932	23.820	23.758	23.641
<b>105</b>	37.888	37.932	38.149	38.260	38.322	38.378	38.328	38.316	38.142	38.025
<b>110</b>	53.531	53.481	53.667	53.773	53.754	53.729	53.642	53.624	53.686	53.686
<b>115</b>	70.457	70.389	70.488	70.426	70.668	70.779	70.612	70.562	70.420	70.252
<b>120</b>	87.445	87.550	87.643	87.910	88.009	87.792	87.507	87.463	87.519	87.401
<b>125</b>	103.459	103.639	103.329	103.286	103.714	103.893	104.104	104.383	104.389	104.445
<b>130</b>	121.700	121.818	121.718	121.892	122.531	123.126	123.374	123.585	123.839	123.950
<b>135</b>	141.577	141.540	141.472	141.707	142.476	142.916	143.276	143.741	144.466	144.844
<b>140</b>	160.549	160.592	160.704	160.747	161.721	163.017	164.126	164.883	165.311	165.342
<b>145</b>	181.412	181.325	181.356	181.629	182.311	183.043	183.725	184.462	184.797	185.095
<b>150</b>	201.190	200.719	200.837	201.109	201.357	201.816	202.548	202.728	203.118	203.255
<b>155</b>	218.296	218.252	218.637	218.178	218.333	218.866	219.505	219.703	220.088	220.106
<b>160</b>	233.945	233.920	233.151	233.337	233.480	233.814	234.478	234.670	234.695	234.782
<b>165</b>	246.227	246.611	246.140	245.650	245.979	246.183	246.400	246.872	246.952	246.803
<b>170</b>	255.322	255.421	255.285	254.888	255.000	255.397	255.595	256.110	256.085	255.812
<b>175</b>	260.158	260.028	260.003	260.276	260.524	261.156	261.380	261.739	261.770	261.293
<b>180</b>	262.868	262.868	262.868	262.868	262.868	262.868	262.868	262.868	262.868	262.868

**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>
<b>0</b>	580.264	580.264	580.264	580.264	580.264	580.264	580.264	580.264	580.264
<b>5</b>	576.966	576.978	577.003	577.053	577.077	577.071	577.108	577.146	577.220
<b>10</b>	567.827	567.877	567.920	567.957	567.994	567.994	568.025	568.094	568.156
<b>15</b>	552.705	552.792	552.848	552.922	552.972	552.941	552.941	552.984	553.021
<b>20</b>	532.307	532.375	532.419	532.475	532.530	532.549	532.599	532.592	532.555
<b>25</b>	506.472	506.559	506.645	506.676	506.726	506.757	506.800	506.776	506.751
<b>30</b>	476.315	476.389	476.489	476.557	476.613	476.650	476.650	476.675	476.662
<b>35</b>	442.575	442.674	442.810	442.866	442.953	442.978	442.965	442.978	442.928
<b>40</b>	405.864	405.957	406.032	406.137	406.205	406.236	406.218	406.199	406.143
<b>45</b>	366.246	366.327	366.408	366.470	366.556	366.600	366.600	366.550	366.544
<b>50</b>	324.136	324.297	324.409	324.496	324.545	324.638	324.638	324.576	324.620
<b>55</b>	280.841	280.916	281.034	281.102	281.182	281.263	281.313	281.294	281.282
<b>60</b>	241.310	241.354	241.422	241.459	241.515	241.595	241.670	241.608	241.589

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	196.038	196.075	196.118	196.156	196.149	196.162	196.205	196.156	196.137
<b>70</b>	150.542	150.592	150.623	150.610	150.641	150.592	150.635	150.579	150.480
<b>75</b>	106.535	106.559	106.553	106.547	106.566	106.566	106.597	106.547	106.479
<b>80</b>	64.641	64.635	64.623	64.610	64.616	64.629	64.654	64.585	64.486
<b>85</b>	27.020	26.989	26.939	26.889	26.827	26.772	26.759	26.660	26.635
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	12.226	12.239	12.301	12.307	12.394	12.505	12.536	12.282	12.177
<b>100</b>	23.579	23.535	23.548	23.517	23.560	23.566	23.417	23.039	23.008
<b>105</b>	38.136	38.149	38.155	38.031	37.826	37.721	37.411	36.964	36.909
<b>110</b>	53.661	53.624	53.587	53.419	53.320	53.184	52.793	52.613	52.545
<b>115</b>	70.401	70.382	70.296	70.413	70.277	69.886	69.676	69.384	69.273
<b>120</b>	87.594	87.699	87.835	87.879	87.693	87.246	86.986	86.831	86.527
<b>125</b>	104.575	104.811	104.867	104.830	104.650	104.098	103.949	103.856	103.497
<b>130</b>	124.335	124.477	124.409	124.229	123.777	123.504	123.306	123.237	123.058
<b>135</b>	145.049	144.999	144.832	144.534	144.156	143.766	143.623	143.611	143.511
<b>140</b>	165.366	165.280	164.895	164.505	163.990	163.246	163.184	163.023	162.775
<b>145</b>	184.884	184.580	184.115	183.861	183.681	183.322	183.167	183.074	183.024
<b>150</b>	203.304	203.087	202.839	202.523	202.201	202.238	201.940	202.163	202.442
<b>155</b>	220.174	220.094	219.976	219.616	219.046	218.928	219.195	218.699	218.823
<b>160</b>	234.862	234.850	234.695	234.186	233.852	233.808	233.430	234.428	234.143
<b>165</b>	246.934	246.865	246.345	246.146	245.979	245.433	245.966	246.593	246.276
<b>170</b>	256.048	255.855	255.539	255.279	254.956	254.925	254.907	254.863	254.820
<b>175</b>	261.789	261.615	261.355	261.001	260.437	260.251	260.034	259.662	259.873
<b>180</b>	262.868	262.868	262.868	262.868	262.868	262.868	262.868	262.868	262.868

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	210.66	N.A.	9.40
0-30	443.92	N.A.	19.90
0-40	720.70	N.A.	32.30
0-60	1255.34	N.A.	56.20
0-80	1562.6	N.A.	70.00
0-90	1594.96	N.A.	71.40
10-90	1540.17	N.A.	69.00
20-40	510.04	N.A.	22.80
20-50	792.38	N.A.	35.50
40-70	728.82	N.A.	32.60
60-80	307.26	N.A.	13.80
70-80	113.07	N.A.	5.10
80-90	32.37	N.A.	1.40
90-110	53.80	N.A.	2.40
90-120	123.50	N.A.	5.50
90-130	217.25	N.A.	9.70
90-150	442.64	N.A.	19.80
90-180	637.60	N.A.	28.60
110-180	583.81	N.A.	26.10
0-180	2232.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	54.79
10-20	155.87
20-30	233.26
30-40	276.78
40-50	282.34
50-60	252.29
60-70	194.19
70-80	113.07
80-90	32.37
90-100	13.38
100-110	40.41
110-120	69.70
120-130	93.75
130-140	110.75
140-150	114.64
150-160	100.88
160-170	69.36
170-180	24.73

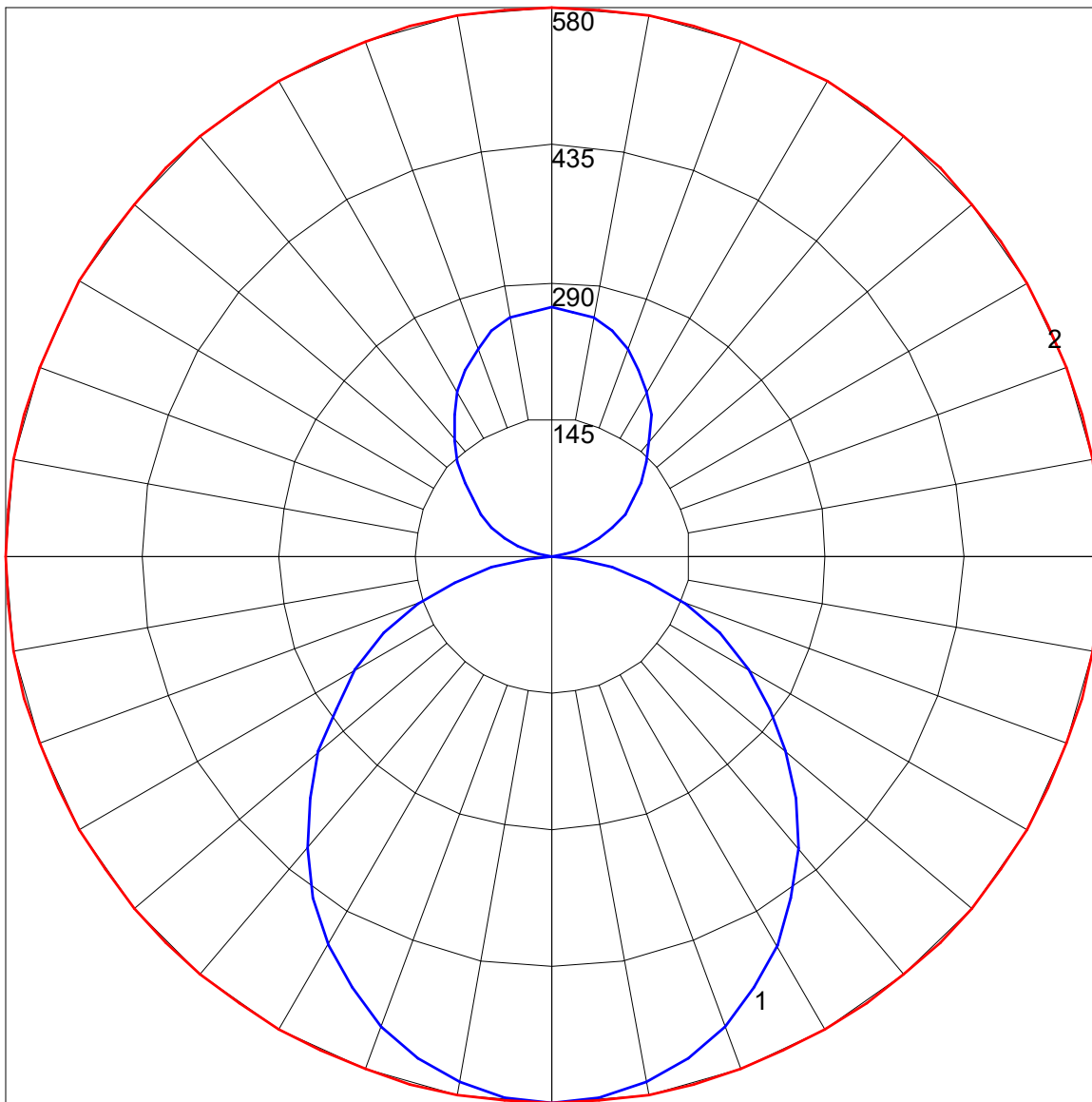
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 580.264 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.)