



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L041502002  
 [TESTLAB]  
 [ISSUE DATE]  
 [MANUFAC] PRUDENTIAL LTG.  
 [LUMCAT] O-30-TU-SO-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	5581
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	105
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	1669	1671	1673
55	1485	1484	1487
65	1278	1276	1277
75	942	940	940
85	394	389	383

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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>	1450.660	1450.660	1450.660	1450.660	1450.660	1450.660	1450.660	1450.660	1450.660	1450.660
<b>5</b>	1442.771	1442.678	1442.600	1442.476	1442.383	1442.228	1442.197	1442.182	1442.259	1442.321
<b>10</b>	1419.319	1419.288	1419.211	1419.226	1419.335	1419.319	1419.288	1419.257	1419.412	1419.505
<b>15</b>	1380.817	1380.895	1380.957	1381.065	1381.096	1381.065	1381.065	1381.220	1381.422	1381.546
<b>20</b>	1329.357	1329.373	1329.373	1329.528	1329.667	1329.683	1329.745	1330.039	1330.334	1330.520
<b>25</b>	1264.350	1264.474	1264.490	1264.629	1264.939	1265.063	1265.280	1265.497	1265.714	1265.916
<b>30</b>	1188.881	1188.896	1188.974	1189.175	1189.470	1189.656	1189.826	1190.105	1190.338	1190.493
<b>35</b>	1104.623	1104.685	1104.700	1104.840	1105.010	1105.336	1105.584	1105.832	1106.018	1106.266
<b>40</b>	1012.212	1012.367	1012.289	1012.429	1012.615	1013.002	1013.405	1013.824	1014.211	1014.397
<b>45</b>	913.802	913.756	913.570	913.616	913.756	913.833	913.849	914.128	914.903	915.321
<b>50</b>	809.658	809.627	809.425	809.270	809.286	809.286	809.363	809.518	809.673	809.890
<b>55</b>	702.212	702.150	701.902	701.793	701.654	701.530	701.561	701.716	701.824	701.964
<b>60</b>	604.050	604.128	603.942	603.833	603.678	603.182	602.919	602.981	603.043	603.136
<b>65</b>	490.683	490.730	490.916	490.466	490.559	490.311	490.311	490.327	490.172	490.048
<b>70</b>	377.037	376.820	376.836	376.665	376.650	376.557	376.526	376.541	376.433	376.402
<b>75</b>	266.817	266.569	266.693	266.615	266.600	266.507	266.429	266.460	266.414	266.367
<b>80</b>	162.440	162.424	162.316	162.269	162.269	162.238	162.130	161.990	161.851	161.696
<b>85</b>	68.541	68.541	68.479	68.448	68.401	68.262	68.122	68.014	67.890	67.704
<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>	34.332	34.255	34.022	33.604	33.123	32.550	32.007	31.511	31.077	30.736
<b>100</b>	60.574	60.434	60.295	60.372	60.233	60.047	59.830	59.551	59.396	59.101
<b>105</b>	94.720	94.829	95.371	95.650	95.805	95.945	95.821	95.790	95.356	95.061
<b>110</b>	133.827	133.703	134.168	134.431	134.385	134.323	134.106	134.059	134.214	134.214
<b>115</b>	176.142	175.971	176.219	176.064	176.669	176.948	176.529	176.405	176.049	175.630
<b>120</b>	218.612	218.875	219.108	219.774	220.022	219.480	218.767	218.658	218.798	218.503
<b>125</b>	258.648	259.098	258.323	258.214	259.284	259.733	260.260	260.958	260.973	261.113
<b>130</b>	304.249	304.544	304.296	304.730	306.326	307.814	308.434	308.961	309.597	309.876
<b>135</b>	353.942	353.849	353.679	354.268	356.190	357.290	358.189	359.352	361.165	362.111
<b>140</b>	401.372	401.481	401.760	401.868	404.302	407.541	410.316	412.207	413.276	413.354
<b>145</b>	453.530	453.313	453.390	454.072	455.777	457.606	459.311	461.156	461.993	462.737
<b>150</b>	502.975	501.797	502.091	502.773	503.393	504.540	506.369	506.819	507.795	508.136
<b>155</b>	545.739	545.631	546.592	545.445	545.832	547.165	548.762	549.258	550.219	550.265
<b>160</b>	584.861	584.799	582.877	583.342	583.699	584.536	586.194	586.675	586.737	586.954
<b>165</b>	615.567	616.528	615.350	614.125	614.947	615.458	616.001	617.179	617.380	617.008
<b>170</b>	638.305	638.553	638.212	637.220	637.499	638.491	638.987	640.274	640.212	639.530
<b>175</b>	650.395	650.070	650.008	650.690	651.310	652.891	653.449	654.348	654.425	653.232
<b>180</b>	657.169	657.169	657.169	657.169	657.169	657.169	657.169	657.169	657.169	657.169

**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>	1450.660	1450.660	1450.660	1450.660	1450.660	1450.660	1450.660	1450.660	1450.660
<b>5</b>	1442.414	1442.445	1442.507	1442.631	1442.693	1442.678	1442.771	1442.864	1443.050
<b>10</b>	1419.567	1419.691	1419.800	1419.893	1419.986	1419.986	1420.063	1420.234	1420.389
<b>15</b>	1381.763	1381.980	1382.119	1382.305	1382.429	1382.352	1382.352	1382.460	1382.553
<b>20</b>	1330.768	1330.938	1331.047	1331.186	1331.326	1331.372	1331.496	1331.481	1331.388
<b>25</b>	1266.179	1266.396	1266.613	1266.691	1266.815	1266.892	1267.001	1266.939	1266.877
<b>30</b>	1190.787	1190.973	1191.221	1191.392	1191.531	1191.624	1191.624	1191.686	1191.655
<b>35</b>	1106.436	1106.684	1107.025	1107.165	1107.382	1107.444	1107.413	1107.444	1107.320
<b>40</b>	1014.661	1014.893	1015.079	1015.343	1015.513	1015.591	1015.544	1015.498	1015.358
<b>45</b>	915.616	915.817	916.019	916.174	916.391	916.499	916.499	916.375	916.360
<b>50</b>	810.340	810.743	811.022	811.239	811.363	811.595	811.595	811.440	811.549
<b>55</b>	702.103	702.289	702.584	702.754	702.956	703.157	703.281	703.235	703.204
<b>60</b>	603.275	603.384	603.554	603.647	603.787	603.988	604.174	604.019	603.973

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	490.094	490.187	490.296	490.389	490.373	490.404	490.513	490.389	490.342
<b>70</b>	376.355	376.479	376.557	376.526	376.603	376.479	376.588	376.448	376.200
<b>75</b>	266.336	266.398	266.383	266.367	266.414	266.414	266.491	266.367	266.197
<b>80</b>	161.603	161.587	161.556	161.525	161.541	161.572	161.634	161.463	161.215
<b>85</b>	67.549	67.471	67.347	67.223	67.068	66.929	66.898	66.650	66.588
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	30.566	30.597	30.752	30.767	30.984	31.263	31.341	30.705	30.442
<b>100</b>	58.946	58.838	58.869	58.791	58.900	58.915	58.543	57.598	57.520
<b>105</b>	95.340	95.371	95.387	95.077	94.565	94.302	93.527	92.411	92.271
<b>110</b>	134.152	134.059	133.966	133.548	133.300	132.959	131.982	131.533	131.362
<b>115</b>	176.002	175.956	175.739	176.033	175.692	174.716	174.189	173.460	173.181
<b>120</b>	218.984	219.247	219.588	219.697	219.232	218.116	217.465	217.077	216.318
<b>125</b>	261.438	262.027	262.167	262.074	261.624	260.245	259.873	259.640	258.741
<b>130</b>	310.837	311.193	311.023	310.573	309.442	308.760	308.264	308.093	307.644
<b>135</b>	362.622	362.498	362.080	361.336	360.390	359.414	359.057	359.026	358.778
<b>140</b>	413.416	413.199	412.238	411.261	409.975	408.115	407.960	407.557	406.937
<b>145</b>	462.210	461.450	460.288	459.652	459.203	458.304	457.916	457.684	457.560
<b>150</b>	508.260	507.718	507.098	506.307	505.501	505.594	504.850	505.408	506.106
<b>155</b>	550.436	550.234	549.940	549.041	547.615	547.320	547.987	546.747	547.057
<b>160</b>	587.155	587.124	586.737	585.466	584.629	584.520	583.575	586.070	585.357
<b>165</b>	617.334	617.163	615.861	615.365	614.947	613.583	614.916	616.481	615.691
<b>170</b>	640.119	639.638	638.848	638.197	637.391	637.313	637.267	637.158	637.050
<b>175</b>	654.472	654.038	653.387	652.503	651.093	650.628	650.085	649.155	649.682
<b>180</b>	657.169	657.169	657.169	657.169	657.169	657.169	657.169	657.169	657.169

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	526.66	N.A.	9.40
0-30	1109.81	N.A.	19.90
0-40	1801.76	N.A.	32.30
0-60	3138.34	N.A.	56.20
0-80	3906.49	N.A.	70.00
0-90	3987.4	N.A.	71.40
10-90	3850.43	N.A.	69.00
20-40	1275.1	N.A.	22.80
20-50	1980.94	N.A.	35.50
40-70	1822.04	N.A.	32.60
60-80	768.15	N.A.	13.80
70-80	282.68	N.A.	5.10
80-90	80.91	N.A.	1.40
90-110	134.49	N.A.	2.40
90-120	308.74	N.A.	5.50
90-130	543.12	N.A.	9.70
90-150	1106.6	N.A.	19.80
90-180	1594.01	N.A.	28.60
110-180	1459.52	N.A.	26.10
0-180	5581.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	136.97
10-20	389.69
20-30	583.15
30-40	691.95
40-50	705.84
50-60	630.74
60-70	485.47
70-80	282.68
80-90	80.91
90-100	33.46
100-110	101.03
110-120	174.25
120-130	234.38
130-140	276.88
140-150	286.59
150-160	252.20
160-170	173.40
170-180	61.81

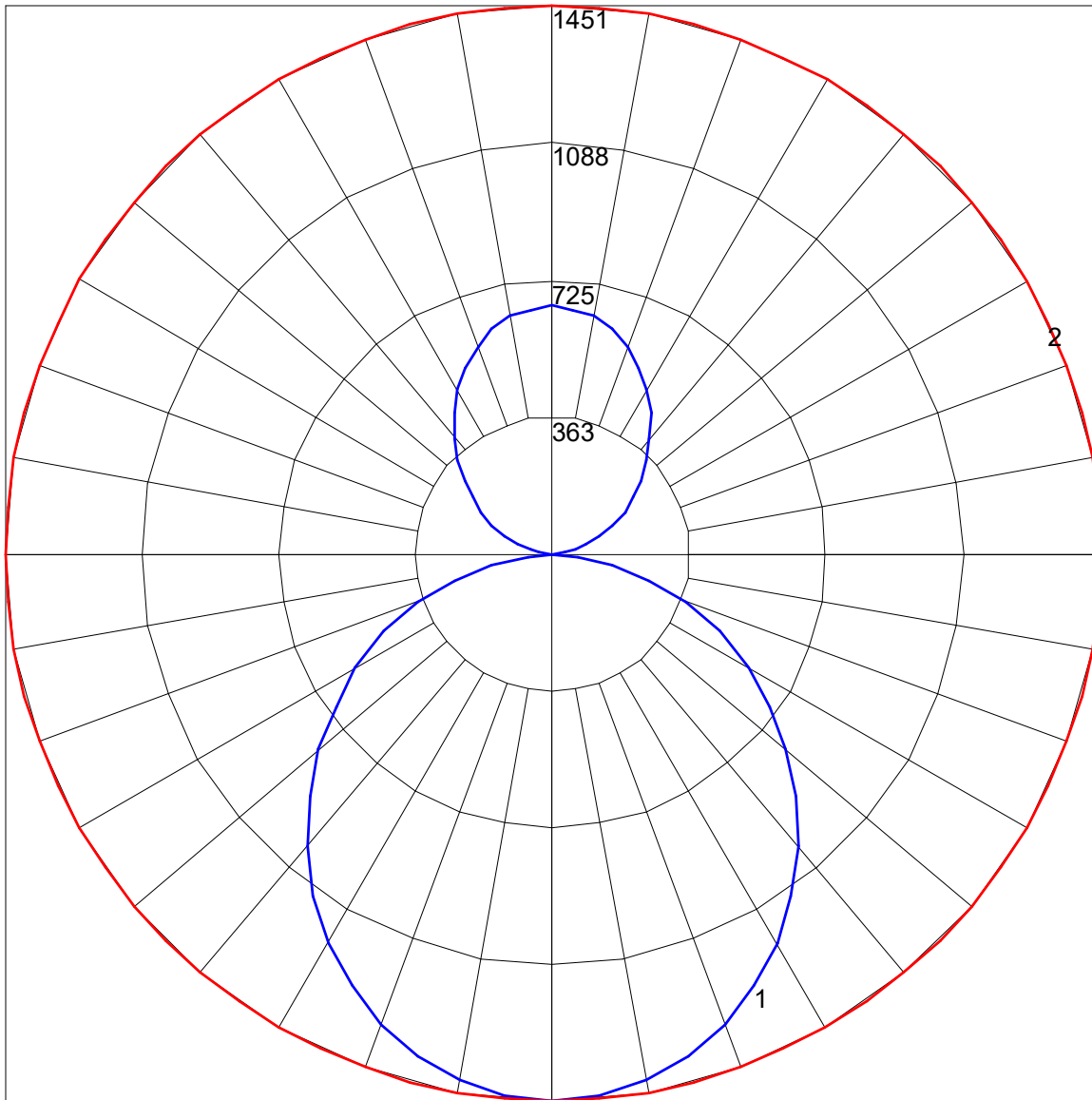
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1450.66 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.)