



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041502002
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] O-40-TU-MO-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	3601
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	68
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	1077	1078	1080
55	958	957	959
65	824	823	824
75	608	607	606
85	254	251	247

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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	935.91	935.91	935.91	935.91	935.91	935.91	935.91	935.91	935.91	935.91
5	930.82	930.76	930.71	930.63	930.57	930.47	930.45	930.44	930.49	930.53
10	915.69	915.67	915.62	915.63	915.70	915.69	915.67	915.65	915.75	915.81
15	890.85	890.90	890.94	891.01	891.03	891.01	891.01	891.11	891.24	891.32
20	857.65	857.66	857.66	857.76	857.85	857.86	857.90	858.09	858.28	858.40
25	815.71	815.79	815.80	815.89	816.09	816.17	816.31	816.45	816.59	816.72
30	767.02	767.03	767.08	767.21	767.40	767.52	767.63	767.81	767.96	768.06
35	712.66	712.70	712.71	712.80	712.91	713.12	713.28	713.44	713.56	713.72
40	653.04	653.14	653.09	653.18	653.30	653.55	653.81	654.08	654.33	654.45
45	589.55	589.52	589.40	589.43	589.52	589.57	589.58	589.76	590.26	590.53
50	522.36	522.34	522.21	522.11	522.12	522.12	522.17	522.27	522.37	522.51
55	453.04	453.00	452.84	452.77	452.68	452.60	452.62	452.72	452.79	452.88
60	389.71	389.76	389.64	389.57	389.47	389.15	388.98	389.02	389.06	389.12
65	316.57	316.60	316.72	316.43	316.49	316.33	316.33	316.34	316.24	316.16
70	243.25	243.11	243.12	243.01	243.00	242.94	242.92	242.93	242.86	242.84
75	172.14	171.98	172.06	172.01	172.00	171.94	171.89	171.91	171.88	171.85
80	104.80	104.79	104.72	104.69	104.69	104.67	104.60	104.51	104.42	104.32
85	44.22	44.22	44.18	44.16	44.13	44.04	43.95	43.88	43.80	43.68
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	22.15	22.10	21.95	21.68	21.37	21.00	20.65	20.33	20.05	19.83
100	39.08	38.99	38.90	38.95	38.86	38.74	38.60	38.42	38.32	38.13
105	61.11	61.18	61.53	61.71	61.81	61.90	61.82	61.80	61.52	61.33
110	86.34	86.26	86.56	86.73	86.70	86.66	86.52	86.49	86.59	86.59
115	113.64	113.53	113.69	113.59	113.98	114.16	113.89	113.81	113.58	113.31
120	141.04	141.21	141.36	141.79	141.95	141.60	141.14	141.07	141.16	140.97
125	166.87	167.16	166.66	166.59	167.28	167.57	167.91	168.36	168.37	168.46
130	196.29	196.48	196.32	196.60	197.63	198.59	198.99	199.33	199.74	199.92
135	228.35	228.29	228.18	228.56	229.80	230.51	231.09	231.84	233.01	233.62
140	258.95	259.02	259.20	259.27	260.84	262.93	264.72	265.94	266.63	266.68
145	292.60	292.46	292.51	292.95	294.05	295.23	296.33	297.52	298.06	298.54
150	324.50	323.74	323.93	324.37	324.77	325.51	326.69	326.98	327.61	327.83
155	352.09	352.02	352.64	351.90	352.15	353.01	354.04	354.36	354.98	355.01
160	377.33	377.29	376.05	376.35	376.58	377.12	378.19	378.50	378.54	378.68
165	397.14	397.76	397.00	396.21	396.74	397.07	397.42	398.18	398.31	398.07
170	411.81	411.97	411.75	411.11	411.29	411.93	412.25	413.08	413.04	412.60
175	419.61	419.40	419.36	419.80	420.20	421.22	421.58	422.16	422.21	421.44
180	423.98	423.98	423.98	423.98	423.98	423.98	423.98	423.98	423.98	423.98

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	935.91	935.91	935.91	935.91	935.91	935.91	935.91	935.91	935.91
5	930.59	930.61	930.65	930.73	930.77	930.76	930.82	930.88	931.00
10	915.85	915.93	916.00	916.06	916.12	916.12	916.17	916.28	916.38
15	891.46	891.60	891.69	891.81	891.89	891.84	891.84	891.91	891.97
20	858.56	858.67	858.74	858.83	858.92	858.95	859.03	859.02	858.96
25	816.89	817.03	817.17	817.22	817.30	817.35	817.42	817.38	817.34
30	768.25	768.37	768.53	768.64	768.73	768.79	768.79	768.83	768.81
35	713.83	713.99	714.21	714.30	714.44	714.48	714.46	714.48	714.40
40	654.62	654.77	654.89	655.06	655.17	655.22	655.19	655.16	655.07
45	590.72	590.85	590.98	591.08	591.22	591.29	591.29	591.21	591.20
50	522.80	523.06	523.24	523.38	523.46	523.61	523.61	523.51	523.58
55	452.97	453.09	453.28	453.39	453.52	453.65	453.73	453.70	453.68
60	389.21	389.28	389.39	389.45	389.54	389.67	389.79	389.69	389.66

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CANDELA TABULATION - (Cont.)

65	316.19	316.25	316.32	316.38	316.37	316.39	316.46	316.38	316.35
70	242.81	242.89	242.94	242.92	242.97	242.89	242.96	242.87	242.71
75	171.83	171.87	171.86	171.85	171.88	171.88	171.93	171.85	171.74
80	104.26	104.25	104.23	104.21	104.22	104.24	104.28	104.17	104.01
85	43.58	43.53	43.45	43.37	43.27	43.18	43.16	43.00	42.96
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	19.72	19.74	19.84	19.85	19.99	20.17	20.22	19.81	19.64
100	38.03	37.96	37.98	37.93	38.00	38.01	37.77	37.16	37.11
105	61.51	61.53	61.54	61.34	61.01	60.84	60.34	59.62	59.53
110	86.55	86.49	86.43	86.16	86.00	85.78	85.15	84.86	84.75
115	113.55	113.52	113.38	113.57	113.35	112.72	112.38	111.91	111.73
120	141.28	141.45	141.67	141.74	141.44	140.72	140.30	140.05	139.56
125	168.67	169.05	169.14	169.08	168.79	167.90	167.66	167.51	166.93
130	200.54	200.77	200.66	200.37	199.64	199.20	198.88	198.77	198.48
135	233.95	233.87	233.60	233.12	232.51	231.88	231.65	231.63	231.47
140	266.72	266.58	265.96	265.33	264.50	263.30	263.20	262.94	262.54
145	298.20	297.71	296.96	296.55	296.26	295.68	295.43	295.28	295.20
150	327.91	327.56	327.16	326.65	326.13	326.19	325.71	326.07	326.52
155	355.12	354.99	354.80	354.22	353.30	353.11	353.54	352.74	352.94
160	378.81	378.79	378.54	377.72	377.18	377.11	376.50	378.11	377.65
165	398.28	398.17	397.33	397.01	396.74	395.86	396.72	397.73	397.22
170	412.98	412.67	412.16	411.74	411.22	411.17	411.14	411.07	411.00
175	422.24	421.96	421.54	420.97	420.06	419.76	419.41	418.81	419.15
180	423.98	423.98	423.98	423.98	423.98	423.98	423.98	423.98	423.98

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	339.78	N.A.	9.40
0-30	716.01	N.A.	19.90
0-40	1162.43	N.A.	32.30
0-60	2024.74	N.A.	56.20
0-80	2520.32	N.A.	70.00
0-90	2572.52	N.A.	71.40
10-90	2484.15	N.A.	69.00
20-40	822.65	N.A.	22.80
20-50	1278.03	N.A.	35.50
40-70	1175.51	N.A.	32.60
60-80	495.58	N.A.	13.80
70-80	182.38	N.A.	5.10
80-90	52.20	N.A.	1.40
90-110	86.77	N.A.	2.40
90-120	199.19	N.A.	5.50
90-130	350.40	N.A.	9.70
90-150	713.93	N.A.	19.80
90-180	1028.39	N.A.	28.60
110-180	941.63	N.A.	26.10
0-180	3600.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.37
10-20	251.41
20-30	376.23
30-40	446.42
40-50	455.38
50-60	406.93
60-70	313.20
70-80	182.38
80-90	52.20
90-100	21.59
100-110	65.18
110-120	112.42
120-130	151.21
130-140	178.63
140-150	184.90
150-160	162.71
160-170	111.87
170-180	39.88

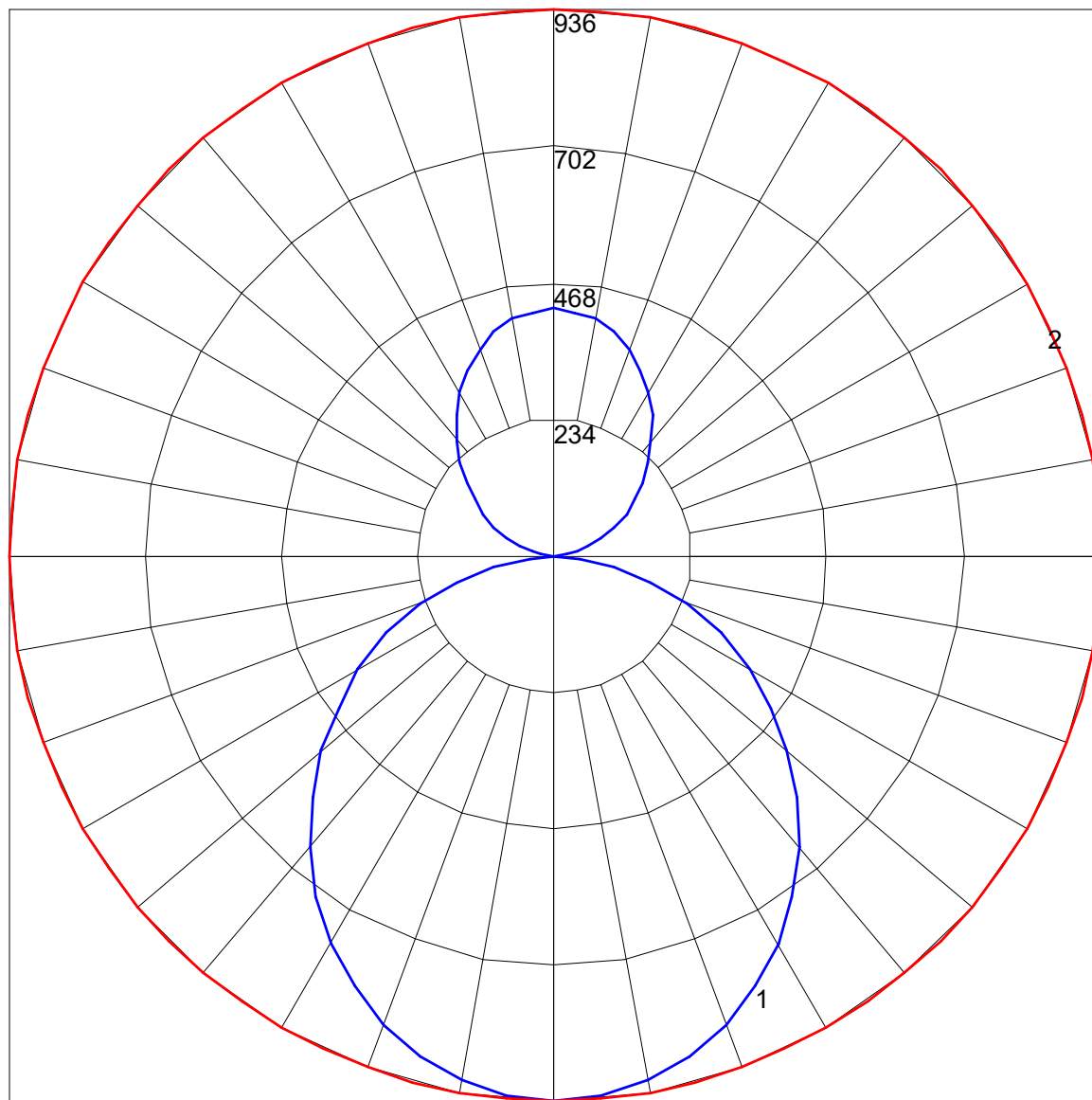
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 935.91 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.)