



IES INDOOR REPORT

PHOTOMETRIC FILENAME : O-40-LED4-MO-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041502002
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 4/15/2015
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] O-40-LED4-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	4501
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	75
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	1346	1348	1349
55	1197	1197	1199
65	1031	1029	1030
75	760	758	758
85	318	314	309

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1169.888	1169.888	1169.888	1169.888	1169.888	1169.888	1169.888	1169.888	1169.888	1169.888
5	1163.525	1163.450	1163.388	1163.287	1163.213	1163.088	1163.063	1163.050	1163.112	1163.162
10	1144.612	1144.588	1144.525	1144.537	1144.625	1144.612	1144.588	1144.563	1144.688	1144.763
15	1113.563	1113.625	1113.675	1113.763	1113.787	1113.763	1113.763	1113.888	1114.050	1114.150
20	1072.063	1072.075	1072.075	1072.200	1072.313	1072.325	1072.375	1072.612	1072.850	1073.000
25	1019.638	1019.737	1019.750	1019.862	1020.112	1020.212	1020.388	1020.563	1020.737	1020.900
30	958.775	958.788	958.850	959.013	959.250	959.400	959.538	959.763	959.950	960.075
35	890.825	890.875	890.888	891.000	891.138	891.400	891.600	891.800	891.950	892.150
40	816.300	816.425	816.362	816.475	816.625	816.938	817.263	817.600	817.913	818.063
45	736.938	736.900	736.750	736.788	736.900	736.962	736.975	737.200	737.825	738.163
50	652.950	652.925	652.763	652.638	652.650	652.650	652.712	652.837	652.962	653.138
55	566.300	566.250	566.050	565.962	565.850	565.750	565.775	565.900	565.987	566.100
60	487.137	487.200	487.050	486.962	486.837	486.438	486.225	486.275	486.325	486.400
65	395.712	395.750	395.900	395.538	395.613	395.413	395.413	395.425	395.300	395.200
70	304.063	303.887	303.900	303.762	303.750	303.675	303.650	303.663	303.575	303.550
75	215.175	214.975	215.075	215.012	215.000	214.925	214.863	214.887	214.850	214.813
80	131.000	130.988	130.900	130.863	130.863	130.838	130.750	130.637	130.525	130.400
85	55.275	55.275	55.225	55.200	55.163	55.050	54.938	54.850	54.750	54.600
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	27.688	27.625	27.438	27.100	26.712	26.250	25.813	25.413	25.063	24.788
100	48.850	48.737	48.625	48.688	48.575	48.425	48.250	48.025	47.900	47.663
105	76.388	76.475	76.912	77.138	77.263	77.375	77.275	77.250	76.900	76.662
110	107.925	107.825	108.200	108.412	108.375	108.325	108.150	108.112	108.237	108.237
115	142.050	141.912	142.113	141.988	142.475	142.700	142.363	142.262	141.975	141.637
120	176.300	176.512	176.700	177.238	177.438	177.000	176.425	176.338	176.450	176.213
125	208.588	208.950	208.325	208.238	209.100	209.463	209.887	210.450	210.463	210.575
130	245.363	245.600	245.400	245.750	247.037	248.238	248.738	249.162	249.675	249.900
135	285.438	285.363	285.225	285.700	287.250	288.137	288.863	289.800	291.262	292.025
140	323.688	323.775	324.000	324.087	326.050	328.663	330.900	332.425	333.288	333.350
145	365.750	365.575	365.637	366.188	367.563	369.038	370.413	371.900	372.575	373.175
150	405.625	404.675	404.913	405.462	405.962	406.887	408.363	408.725	409.512	409.788
155	440.113	440.025	440.800	439.875	440.188	441.262	442.550	442.950	443.725	443.762
160	471.663	471.613	470.063	470.438	470.725	471.400	472.738	473.125	473.175	473.350
165	496.425	497.200	496.250	495.262	495.925	496.337	496.775	497.725	497.887	497.587
170	514.763	514.962	514.688	513.888	514.112	514.913	515.313	516.350	516.300	515.750
175	524.513	524.250	524.200	524.750	525.250	526.525	526.975	527.700	527.763	526.800
180	529.975	529.975	529.975	529.975	529.975	529.975	529.975	529.975	529.975	529.975

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	1169.888	1169.888	1169.888	1169.888	1169.888	1169.888	1169.888	1169.888	1169.888
5	1163.237	1163.263	1163.313	1163.412	1163.463	1163.450	1163.525	1163.600	1163.750
10	1144.813	1144.912	1145.000	1145.075	1145.150	1145.150	1145.213	1145.350	1145.475
15	1114.325	1114.500	1114.612	1114.763	1114.862	1114.800	1114.800	1114.888	1114.963
20	1073.200	1073.338	1073.425	1073.537	1073.650	1073.688	1073.787	1073.775	1073.700
25	1021.112	1021.288	1021.462	1021.525	1021.625	1021.688	1021.775	1021.725	1021.675
30	960.313	960.462	960.663	960.800	960.913	960.987	960.987	961.038	961.013
35	892.288	892.487	892.763	892.875	893.050	893.100	893.075	893.100	893.000
40	818.275	818.462	818.612	818.825	818.962	819.025	818.987	818.950	818.837
45	738.400	738.563	738.725	738.850	739.025	739.112	739.112	739.013	739.000
50	653.500	653.825	654.050	654.225	654.325	654.513	654.513	654.388	654.475
55	566.212	566.362	566.600	566.737	566.900	567.063	567.163	567.125	567.100
60	486.512	486.600	486.738	486.813	486.925	487.087	487.238	487.113	487.075

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CANDELA TABULATION - (Cont.)

65	395.238	395.313	395.400	395.475	395.462	395.488	395.575	395.475	395.438
70	303.512	303.613	303.675	303.650	303.712	303.613	303.700	303.587	303.387
75	214.787	214.838	214.825	214.813	214.850	214.850	214.912	214.813	214.675
80	130.325	130.313	130.287	130.262	130.275	130.300	130.350	130.213	130.012
85	54.475	54.413	54.313	54.212	54.087	53.975	53.950	53.750	53.700
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	24.650	24.675	24.800	24.813	24.988	25.212	25.275	24.762	24.550
100	47.538	47.450	47.475	47.413	47.500	47.513	47.212	46.450	46.388
105	76.888	76.912	76.925	76.675	76.263	76.050	75.425	74.525	74.412
110	108.188	108.112	108.037	107.700	107.500	107.225	106.438	106.075	105.938
115	141.938	141.900	141.725	141.963	141.688	140.900	140.475	139.887	139.662
120	176.600	176.813	177.088	177.175	176.800	175.900	175.375	175.063	174.450
125	210.838	211.313	211.425	211.350	210.988	209.875	209.575	209.387	208.662
130	250.675	250.963	250.825	250.463	249.550	249.000	248.600	248.463	248.100
135	292.438	292.337	292.000	291.400	290.637	289.850	289.563	289.538	289.337
140	333.400	333.225	332.450	331.663	330.625	329.125	329.000	328.675	328.175
145	372.750	372.137	371.200	370.688	370.325	369.600	369.288	369.100	369.000
150	409.887	409.450	408.950	408.313	407.663	407.738	407.137	407.587	408.150
155	443.900	443.738	443.500	442.775	441.625	441.387	441.925	440.925	441.175
160	473.512	473.488	473.175	472.150	471.475	471.387	470.625	472.637	472.063
165	497.850	497.712	496.663	496.262	495.925	494.825	495.900	497.163	496.525
170	516.225	515.837	515.200	514.675	514.025	513.962	513.925	513.837	513.750
175	527.800	527.450	526.925	526.212	525.075	524.700	524.263	523.513	523.938
180	529.975	529.975	529.975	529.975	529.975	529.975	529.975	529.975	529.975

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	424.73	N.A.	9.40
0-30	895.01	N.A.	19.90
0-40	1453.03	N.A.	32.30
0-60	2530.92	N.A.	56.20
0-80	3150.39	N.A.	70.00
0-90	3215.65	N.A.	71.40
10-90	3105.18	N.A.	69.00
20-40	1028.31	N.A.	22.80
20-50	1597.54	N.A.	35.50
40-70	1469.39	N.A.	32.60
60-80	619.48	N.A.	13.80
70-80	227.97	N.A.	5.10
80-90	65.25	N.A.	1.40
90-110	108.46	N.A.	2.40
90-120	248.98	N.A.	5.50
90-130	438.00	N.A.	9.70
90-150	892.42	N.A.	19.80
90-180	1285.49	N.A.	28.60
110-180	1177.03	N.A.	26.10
0-180	4501.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.46
10-20	314.26
20-30	470.28
30-40	558.03
40-50	569.23
50-60	508.66
60-70	391.51
70-80	227.97
80-90	65.25
90-100	26.99
100-110	81.48
110-120	140.52
120-130	189.02
130-140	223.29
140-150	231.12
150-160	203.39
160-170	139.84
170-180	49.85

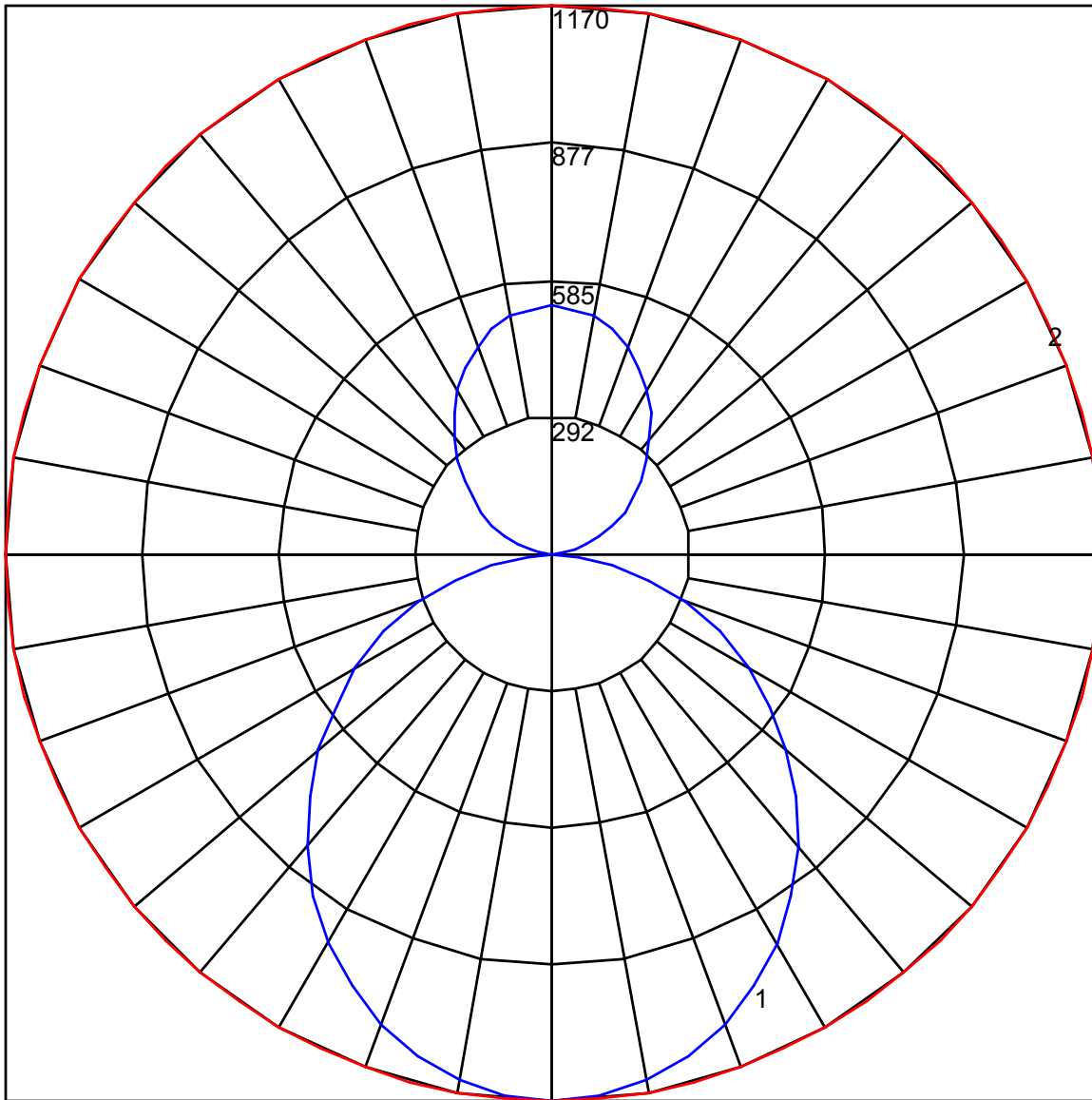
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1169.888 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.)