



IES INDOOR REPORT

PHOTOMETRIC FILENAME : O-40-LED4-LO-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-LO-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	3745
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	62
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	1120	1121	1123
55	996	996	998
65	857	856	857
75	632	631	630
85	264	261	257

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	973.346	973.346	973.346	973.346	973.346	973.346	973.346	973.346	973.346	973.346
5	968.053	967.990	967.938	967.855	967.793	967.689	967.668	967.658	967.710	967.751
10	952.318	952.297	952.245	952.255	952.328	952.318	952.297	952.276	952.380	952.442
15	926.484	926.536	926.578	926.650	926.671	926.650	926.650	926.754	926.890	926.973
20	891.956	891.966	891.966	892.070	892.164	892.174	892.216	892.414	892.611	892.736
25	848.338	848.422	848.432	848.526	848.734	848.817	848.962	849.108	849.254	849.389
30	797.701	797.711	797.763	797.898	798.096	798.221	798.335	798.522	798.678	798.782
35	741.166	741.208	741.218	741.312	741.426	741.645	741.811	741.978	742.102	742.269
40	679.162	679.266	679.214	679.307	679.432	679.692	679.962	680.243	680.503	680.628
45	613.132	613.101	612.976	613.007	613.101	613.153	613.163	613.350	613.870	614.151
50	543.254	543.234	543.098	542.994	543.005	543.005	543.057	543.161	543.265	543.410
55	471.162	471.120	470.954	470.881	470.787	470.704	470.725	470.829	470.902	470.995
60	405.298	405.350	405.226	405.153	405.049	404.716	404.539	404.581	404.622	404.685
65	329.233	329.264	329.389	329.087	329.150	328.983	328.983	328.994	328.890	328.806
70	252.980	252.834	252.845	252.730	252.720	252.658	252.637	252.647	252.574	252.554
75	179.026	178.859	178.942	178.890	178.880	178.818	178.766	178.786	178.755	178.724
80	108.992	108.982	108.909	108.878	108.878	108.857	108.784	108.690	108.597	108.493
85	45.989	45.989	45.947	45.926	45.895	45.802	45.708	45.635	45.552	45.427
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	23.036	22.984	22.828	22.547	22.225	21.840	21.476	21.143	20.852	20.623
100	40.643	40.550	40.456	40.508	40.414	40.290	40.144	39.957	39.853	39.655
105	63.554	63.627	63.991	64.178	64.282	64.376	64.293	64.272	63.981	63.783
110	89.794	89.710	90.022	90.199	90.168	90.126	89.981	89.950	90.054	90.054
115	118.186	118.071	118.238	118.134	118.539	118.726	118.446	118.362	118.123	117.842
120	146.682	146.858	147.014	147.462	147.628	147.264	146.786	146.713	146.806	146.609
125	173.545	173.846	173.326	173.254	173.971	174.273	174.626	175.094	175.105	175.198
130	204.142	204.339	204.173	204.464	205.535	206.534	206.950	207.303	207.730	207.917
135	237.484	237.422	237.307	237.702	238.992	239.730	240.334	241.114	242.330	242.965
140	269.308	269.381	269.568	269.641	271.274	273.447	275.309	276.578	277.295	277.347
145	304.304	304.158	304.210	304.668	305.812	307.039	308.183	309.421	309.982	310.482
150	337.480	336.690	336.887	337.345	337.761	338.530	339.758	340.059	340.714	340.943
155	366.174	366.101	366.746	365.976	366.236	367.130	368.202	368.534	369.179	369.210
160	392.423	392.382	391.092	391.404	391.643	392.205	393.318	393.640	393.682	393.827
165	413.026	413.670	412.880	412.058	412.610	412.953	413.317	414.107	414.242	413.993
170	428.282	428.449	428.220	427.554	427.742	428.407	428.740	429.603	429.562	429.104
175	436.394	436.176	436.134	436.592	437.008	438.069	438.443	439.046	439.098	438.298
180	440.939	440.939	440.939	440.939	440.939	440.939	440.939	440.939	440.939	440.939

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	973.346	973.346	973.346	973.346	973.346	973.346	973.346	973.346	973.346
5	967.814	967.834	967.876	967.959	968.001	967.990	968.053	968.115	968.240
10	952.484	952.567	952.640	952.702	952.765	952.765	952.817	952.931	953.035
15	927.118	927.264	927.358	927.482	927.566	927.514	927.514	927.586	927.649
20	892.902	893.017	893.090	893.183	893.277	893.308	893.391	893.381	893.318
25	849.566	849.711	849.857	849.909	849.992	850.044	850.117	850.075	850.034
30	798.980	799.105	799.271	799.386	799.479	799.542	799.542	799.583	799.562
35	742.383	742.550	742.778	742.872	743.018	743.059	743.038	743.059	742.976
40	680.805	680.961	681.086	681.262	681.377	681.429	681.398	681.366	681.273
45	614.349	614.484	614.619	614.723	614.869	614.942	614.942	614.858	614.848
50	543.712	543.982	544.170	544.315	544.398	544.554	544.554	544.450	544.523
55	471.089	471.214	471.411	471.526	471.661	471.796	471.879	471.848	471.827
60	404.778	404.851	404.966	405.028	405.122	405.257	405.382	405.278	405.246

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CANDELA TABULATION - (Cont.)

65	328.838	328.900	328.973	329.035	329.025	329.046	329.118	329.035	329.004
70	252.522	252.606	252.658	252.637	252.689	252.606	252.678	252.585	252.418
75	178.703	178.745	178.734	178.724	178.755	178.755	178.807	178.724	178.610
80	108.430	108.420	108.399	108.378	108.389	108.410	108.451	108.337	108.170
85	45.323	45.271	45.188	45.105	45.001	44.907	44.886	44.720	44.678
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	20.509	20.530	20.634	20.644	20.790	20.977	21.029	20.602	20.426
100	39.551	39.478	39.499	39.447	39.520	39.530	39.281	38.646	38.594
105	63.970	63.991	64.002	63.794	63.450	63.274	62.754	62.005	61.911
110	90.012	89.950	89.887	89.606	89.440	89.211	88.556	88.254	88.140
115	118.092	118.061	117.915	118.113	117.884	117.229	116.875	116.386	116.199
120	146.931	147.108	147.337	147.410	147.098	146.349	145.912	145.652	145.142
125	175.417	175.812	175.906	175.843	175.542	174.616	174.366	174.210	173.607
130	208.562	208.801	208.686	208.385	207.626	207.168	206.835	206.721	206.419
135	243.308	243.225	242.944	242.445	241.810	241.155	240.916	240.895	240.729
140	277.389	277.243	276.598	275.943	275.080	273.832	273.728	273.458	273.042
145	310.128	309.618	308.838	308.412	308.110	307.507	307.247	307.091	307.008
150	341.026	340.662	340.246	339.716	339.175	339.238	338.738	339.113	339.581
155	369.325	369.190	368.992	368.389	367.432	367.234	367.682	366.850	367.058
160	393.962	393.942	393.682	392.829	392.267	392.194	391.560	393.234	392.756
165	414.211	414.097	413.223	412.890	412.610	411.694	412.589	413.639	413.109
170	429.499	429.177	428.646	428.210	427.669	427.617	427.586	427.513	427.440
175	439.130	438.838	438.402	437.809	436.862	436.550	436.186	435.562	435.916
180	440.939	440.939	440.939	440.939	440.939	440.939	440.939	440.939	440.939

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	353.37	N.A.	9.40
0-30	744.65	N.A.	19.90
0-40	1208.92	N.A.	32.30
0-60	2105.72	N.A.	56.20
0-80	2621.13	N.A.	70.00
0-90	2675.42	N.A.	71.40
10-90	2583.51	N.A.	69.00
20-40	855.55	N.A.	22.80
20-50	1329.15	N.A.	35.50
40-70	1222.53	N.A.	32.60
60-80	515.40	N.A.	13.80
70-80	189.67	N.A.	5.10
80-90	54.29	N.A.	1.40
90-110	90.24	N.A.	2.40
90-120	207.15	N.A.	5.50
90-130	364.42	N.A.	9.70
90-150	742.49	N.A.	19.80
90-180	1069.53	N.A.	28.60
110-180	979.29	N.A.	26.10
0-180	3744.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.91
10-20	261.47
20-30	391.27
30-40	464.28
40-50	473.60
50-60	423.20
60-70	325.73
70-80	189.67
80-90	54.29
90-100	22.45
100-110	67.79
110-120	116.92
120-130	157.26
130-140	185.78
140-150	192.29
150-160	169.22
160-170	116.35
170-180	41.48

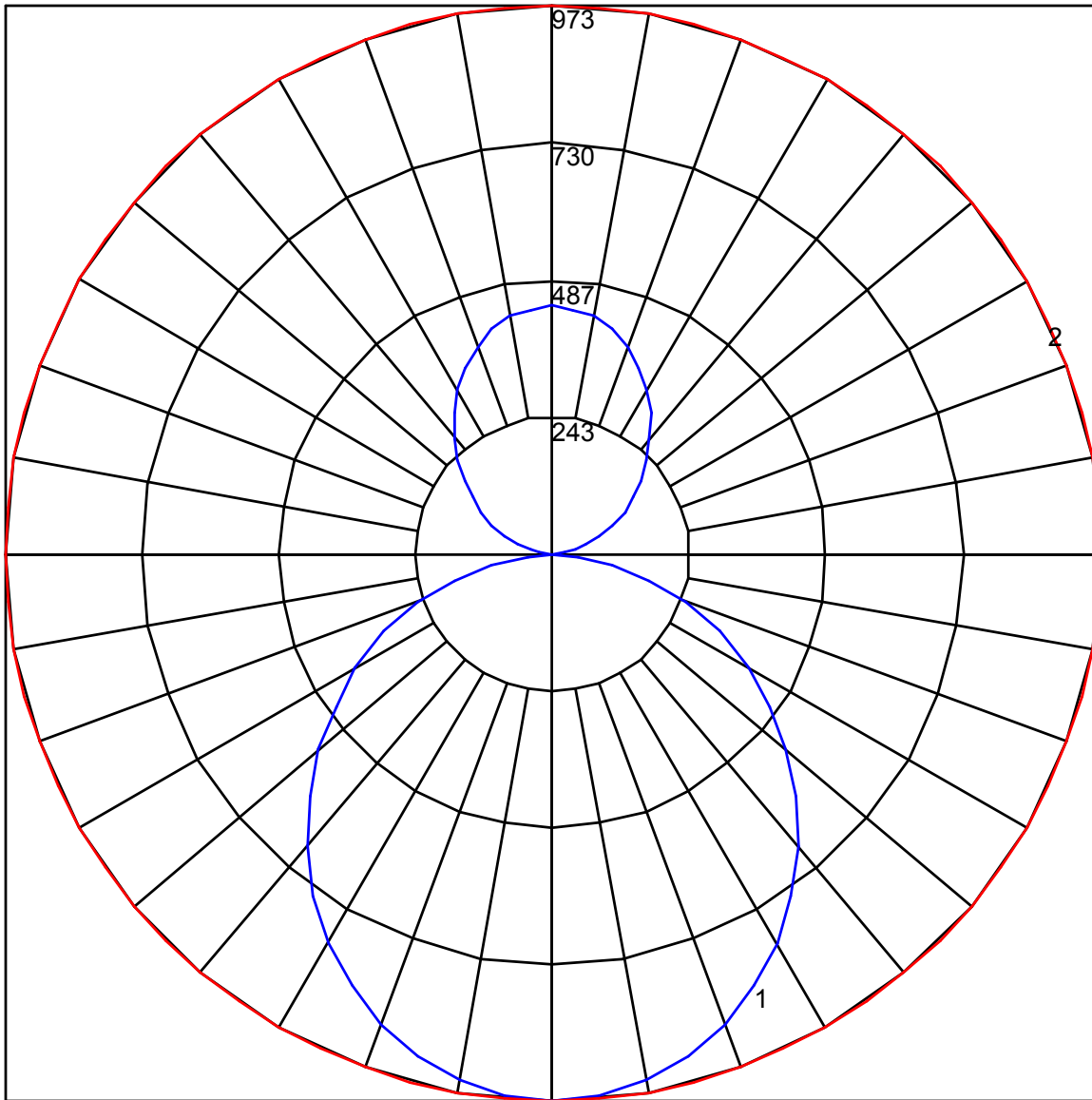
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 973.346 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.)