



IES INDOOR REPORT

PHOTOMETRIC FILENAME : O-40-LED4-HO-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-HO-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	9362
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	181
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	2799	2804	2807
55	2490	2489	2494
65	2144	2141	2142
75	1580	1577	1576
85	661	653	642

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	2433.366	2433.366	2433.366	2433.366	2433.366	2433.366	2433.366	2433.366	2433.366	2433.366
5	2420.132	2419.976	2419.846	2419.638	2419.482	2419.222	2419.170	2419.144	2419.274	2419.378
10	2380.794	2380.742	2380.612	2380.638	2380.820	2380.794	2380.742	2380.690	2380.950	2381.106
15	2316.210	2316.340	2316.444	2316.626	2316.678	2316.626	2316.626	2316.886	2317.224	2317.432
20	2229.890	2229.916	2229.916	2230.176	2230.410	2230.436	2230.540	2231.034	2231.528	2231.840
25	2120.846	2121.054	2121.080	2121.314	2121.834	2122.042	2122.406	2122.770	2123.134	2123.472
30	1994.252	1994.278	1994.408	1994.746	1995.240	1995.552	1995.838	1996.306	1996.696	1996.956
35	1852.916	1853.020	1853.046	1853.280	1853.566	1854.112	1854.528	1854.944	1855.256	1855.672
40	1697.904	1698.164	1698.034	1698.268	1698.580	1699.230	1699.906	1700.608	1701.258	1701.570
45	1532.830	1532.752	1532.440	1532.518	1532.752	1532.882	1532.908	1533.376	1534.676	1535.378
50	1358.136	1358.084	1357.746	1357.486	1357.512	1357.512	1357.642	1357.902	1358.162	1358.526
55	1177.904	1177.800	1177.384	1177.202	1176.968	1176.760	1176.812	1177.072	1177.254	1177.488
60	1013.246	1013.376	1013.064	1012.882	1012.622	1011.790	1011.348	1011.452	1011.556	1011.712
65	823.082	823.160	823.472	822.718	822.874	822.458	822.458	822.484	822.224	822.016
70	632.450	632.086	632.112	631.826	631.800	631.644	631.592	631.618	631.436	631.384
75	447.564	447.148	447.356	447.226	447.200	447.044	446.914	446.966	446.888	446.810
80	272.480	272.454	272.272	272.194	272.194	272.142	271.960	271.726	271.492	271.232
85	114.972	114.972	114.868	114.816	114.738	114.504	114.270	114.088	113.880	113.568
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	57.590	57.460	57.070	56.368	55.562	54.600	53.690	52.858	52.130	51.558
100	101.608	101.374	101.140	101.270	101.036	100.724	100.360	99.892	99.632	99.138
105	158.886	159.068	159.978	160.446	160.706	160.940	160.732	160.680	159.952	159.458
110	224.484	224.276	225.056	225.498	225.420	225.316	224.952	224.874	225.134	225.134
115	295.464	295.178	295.594	295.334	296.348	296.816	296.114	295.906	295.308	294.606
120	366.704	367.146	367.536	368.654	369.070	368.160	366.964	366.782	367.016	366.522
125	433.862	434.616	433.316	433.134	434.928	435.682	436.566	437.736	437.762	437.996
130	510.354	510.848	510.432	511.160	513.838	516.334	517.374	518.258	519.324	519.792
135	593.710	593.554	593.268	594.256	597.480	599.326	600.834	602.784	605.826	607.412
140	673.270	673.452	673.920	674.102	678.184	683.618	688.272	691.444	693.238	693.368
145	760.760	760.396	760.526	761.670	764.530	767.598	770.458	773.552	774.956	776.204
150	843.700	841.724	842.218	843.362	844.402	846.326	849.394	850.148	851.786	852.358
155	915.434	915.252	916.864	914.940	915.590	917.826	920.504	921.336	922.948	923.026
160	981.058	980.954	977.730	978.510	979.108	980.512	983.294	984.100	984.204	984.568
165	1032.564	1034.176	1032.200	1030.146	1031.524	1032.382	1033.292	1035.268	1035.606	1034.982
170	1070.706	1071.122	1070.550	1068.886	1069.354	1071.018	1071.850	1074.008	1073.904	1072.760
175	1090.986	1090.440	1090.336	1091.480	1092.520	1095.172	1096.108	1097.616	1097.746	1095.744
180	1102.348	1102.348	1102.348	1102.348	1102.348	1102.348	1102.348	1102.348	1102.348	1102.348

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	2433.366	2433.366	2433.366	2433.366	2433.366	2433.366	2433.366	2433.366	2433.366
5	2419.534	2419.586	2419.690	2419.898	2420.002	2419.976	2420.132	2420.288	2420.600
10	2381.210	2381.418	2381.600	2381.756	2381.912	2381.912	2382.042	2382.328	2382.588
15	2317.796	2318.160	2318.394	2318.706	2318.914	2318.784	2318.784	2318.966	2319.122
20	2232.256	2232.542	2232.724	2232.958	2233.192	2233.270	2233.478	2233.452	2233.296
25	2123.914	2124.278	2124.642	2124.772	2124.980	2125.110	2125.292	2125.188	2125.084
30	1997.450	1997.762	1998.178	1998.464	1998.698	1998.854	1998.854	1998.958	1998.906
35	1855.958	1856.374	1856.946	1857.180	1857.544	1857.648	1857.596	1857.648	1857.440
40	1702.012	1702.402	1702.714	1703.156	1703.442	1703.572	1703.494	1703.416	1703.182
45	1535.872	1536.210	1536.548	1536.808	1537.172	1537.354	1537.354	1537.146	1537.120
50	1359.280	1359.956	1360.424	1360.788	1360.996	1361.386	1361.386	1361.126	1361.308
55	1177.722	1178.034	1178.528	1178.814	1179.152	1179.490	1179.698	1179.620	1179.568
60	1011.946	1012.128	1012.414	1012.570	1012.804	1013.142	1013.454	1013.194	1013.116

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CANDELA TABULATION - (Cont.)

65	822.094	822.250	822.432	822.588	822.562	822.614	822.796	822.588	822.510
70	631.306	631.514	631.644	631.592	631.722	631.514	631.696	631.462	631.046
75	446.758	446.862	446.836	446.810	446.888	446.888	447.018	446.810	446.524
80	271.076	271.050	270.998	270.946	270.972	271.024	271.128	270.842	270.426
85	113.308	113.178	112.970	112.762	112.502	112.268	112.216	111.800	111.696
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	51.272	51.324	51.584	51.610	51.974	52.442	52.572	51.506	51.064
100	98.878	98.696	98.748	98.618	98.800	98.826	98.202	96.616	96.486
105	159.926	159.978	160.004	159.484	158.626	158.184	156.884	155.012	154.778
110	225.030	224.874	224.718	224.016	223.600	223.028	221.390	220.636	220.350
115	295.230	295.152	294.788	295.282	294.710	293.072	292.188	290.966	290.498
120	367.328	367.770	368.342	368.524	367.744	365.872	364.780	364.130	362.856
125	438.542	439.530	439.764	439.608	438.854	436.540	435.916	435.526	434.018
130	521.404	522.002	521.716	520.962	519.064	517.920	517.088	516.802	516.048
135	608.270	608.062	607.360	606.112	604.526	602.888	602.290	602.238	601.822
140	693.472	693.108	691.496	689.858	687.700	684.580	684.320	683.644	682.604
145	775.320	774.046	772.096	771.030	770.276	768.768	768.118	767.728	767.520
150	852.566	851.656	850.616	849.290	847.938	848.094	846.846	847.782	848.952
155	923.312	922.974	922.480	920.972	918.580	918.086	919.204	917.124	917.644
160	984.906	984.854	984.204	982.072	980.668	980.486	978.900	983.086	981.890
165	1035.528	1035.242	1033.058	1032.226	1031.524	1029.236	1031.472	1034.098	1032.772
170	1073.748	1072.942	1071.616	1070.524	1069.172	1069.042	1068.964	1068.782	1068.600
175	1097.824	1097.096	1096.004	1094.522	1092.156	1091.376	1090.466	1088.906	1089.790
180	1102.348	1102.348	1102.348	1102.348	1102.348	1102.348	1102.348	1102.348	1102.348

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	883.43	N.A.	9.40
0-30	1861.61	N.A.	19.90
0-40	3022.31	N.A.	32.30
0-60	5264.31	N.A.	56.20
0-80	6552.82	N.A.	70.00
0-90	6688.55	N.A.	71.40
10-90	6458.78	N.A.	69.00
20-40	2138.88	N.A.	22.80
20-50	3322.88	N.A.	35.50
40-70	3056.33	N.A.	32.60
60-80	1288.51	N.A.	13.80
70-80	474.18	N.A.	5.10
80-90	135.72	N.A.	1.40
90-110	225.60	N.A.	2.40
90-120	517.89	N.A.	5.50
90-130	911.04	N.A.	9.70
90-150	1856.23	N.A.	19.80
90-180	2673.83	N.A.	28.60
110-180	2448.23	N.A.	26.10
0-180	9362.37	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	229.76
10-20	653.67
20-30	978.19
30-40	1160.7
40-50	1183.99
50-60	1058.01
60-70	814.33
70-80	474.18
80-90	135.72
90-100	56.13
100-110	169.47
110-120	292.29
120-130	393.16
130-140	464.45
140-150	480.74
150-160	423.04
160-170	290.87
170-180	103.69

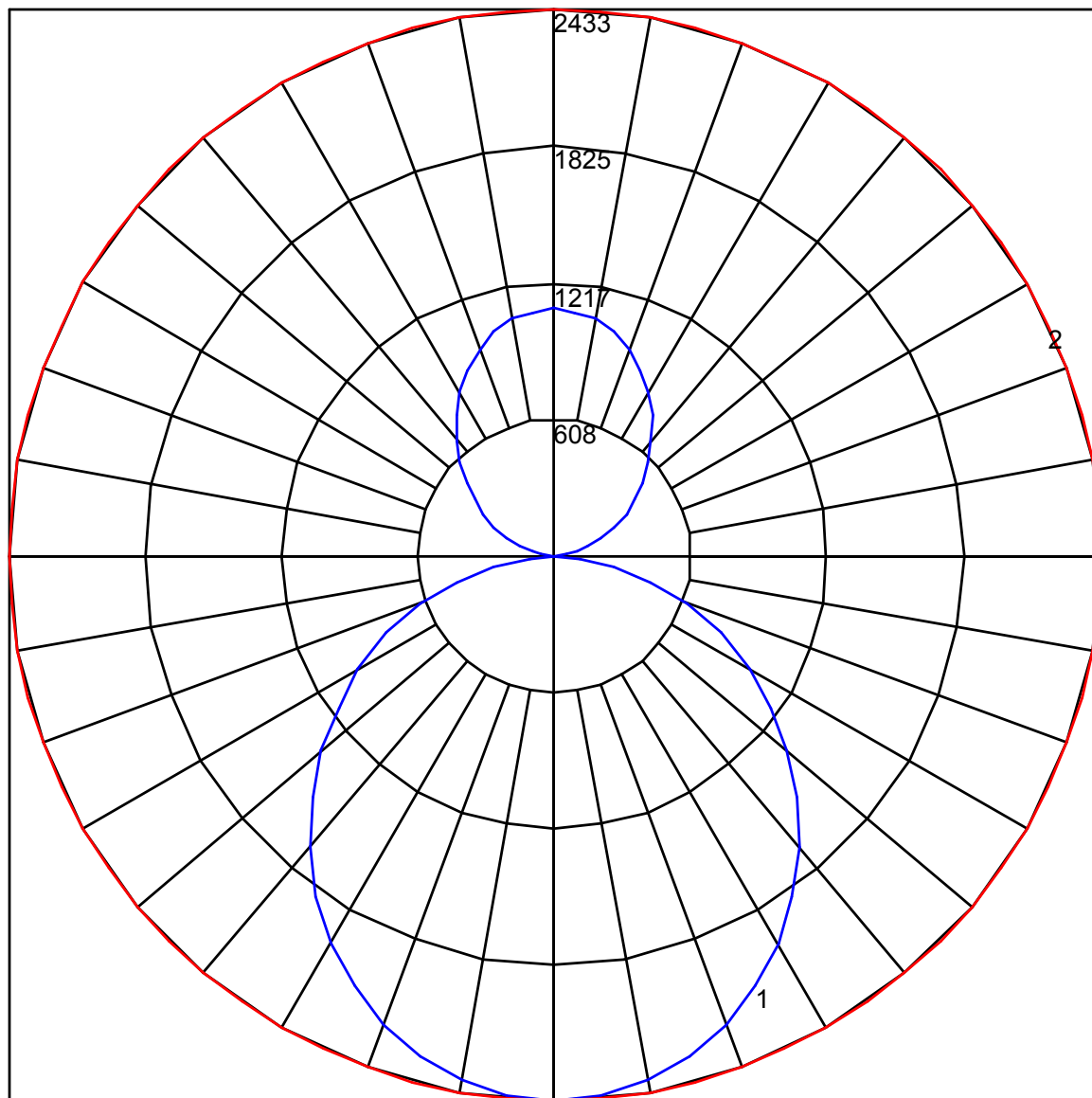
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2433.366 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.)