



IES INDOOR REPORT

PHOTOMETRIC FILENAME : O-30-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-30-LED4-LO-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	3133
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	51
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	937	938	939
55	833	833	834
65	717	716	717
75	529	528	527
85	221	218	215

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	814.242	814.242	814.242	814.242	814.242	814.242	814.242	814.242	814.242	814.242
5	809.813	809.761	809.718	809.648	809.596	809.509	809.492	809.483	809.526	809.561
10	796.650	796.633	796.589	796.598	796.659	796.650	796.633	796.616	796.703	796.755
15	775.040	775.083	775.118	775.179	775.196	775.179	775.179	775.266	775.379	775.448
20	746.156	746.164	746.164	746.251	746.330	746.338	746.373	746.538	746.704	746.808
25	709.668	709.737	709.746	709.824	709.998	710.068	710.190	710.312	710.433	710.546
30	667.307	667.316	667.360	667.473	667.638	667.742	667.838	667.995	668.125	668.212
35	620.014	620.049	620.058	620.136	620.232	620.414	620.554	620.693	620.797	620.936
40	568.145	568.232	568.188	568.267	568.371	568.589	568.815	569.050	569.267	569.372
45	512.909	512.882	512.778	512.804	512.882	512.926	512.935	513.091	513.526	513.761
50	454.453	454.436	454.323	454.236	454.244	454.244	454.288	454.375	454.462	454.584
55	394.145	394.110	393.971	393.910	393.832	393.762	393.779	393.866	393.927	394.006
60	339.048	339.091	338.987	338.926	338.839	338.561	338.413	338.447	338.482	338.534
65	275.416	275.442	275.546	275.294	275.346	275.207	275.207	275.216	275.129	275.059
70	211.628	211.506	211.514	211.419	211.410	211.358	211.340	211.349	211.288	211.271
75	149.762	149.623	149.692	149.649	149.640	149.588	149.544	149.562	149.536	149.510
80	91.176	91.167	91.106	91.080	91.080	91.063	91.002	90.924	90.845	90.758
85	38.471	38.471	38.437	38.419	38.393	38.315	38.237	38.176	38.106	38.002
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	19.271	19.227	19.097	18.862	18.592	18.270	17.966	17.687	17.444	17.252
100	34.000	33.921	33.843	33.887	33.808	33.704	33.582	33.425	33.338	33.173
105	53.166	53.227	53.531	53.688	53.775	53.853	53.783	53.766	53.522	53.357
110	75.116	75.046	75.307	75.455	75.429	75.394	75.272	75.246	75.333	75.333
115	98.867	98.771	98.910	98.823	99.163	99.319	99.084	99.015	98.815	98.580
120	122.705	122.853	122.983	123.357	123.497	123.192	122.792	122.731	122.809	122.644
125	145.177	145.429	144.994	144.933	145.534	145.786	146.082	146.473	146.482	146.560
130	170.772	170.938	170.798	171.042	171.938	172.773	173.121	173.417	173.774	173.930
135	198.665	198.612	198.517	198.847	199.926	200.544	201.048	201.701	202.719	203.249
140	225.287	225.347	225.504	225.565	226.931	228.749	230.306	231.368	231.968	232.012
145	254.562	254.440	254.484	254.867	255.824	256.850	257.807	258.842	259.312	259.730
150	282.315	281.654	281.819	282.202	282.550	283.194	284.220	284.473	285.021	285.212
155	306.318	306.257	306.797	306.153	306.371	307.119	308.015	308.293	308.833	308.859
160	328.277	328.242	327.164	327.425	327.625	328.094	329.025	329.295	329.330	329.452
165	345.512	346.051	345.390	344.703	345.164	345.451	345.755	346.417	346.530	346.321
170	358.275	358.414	358.223	357.666	357.822	358.379	358.658	359.380	359.345	358.962
175	365.061	364.878	364.843	365.226	365.574	366.461	366.775	367.279	367.323	366.653
180	368.863	368.863	368.863	368.863	368.863	368.863	368.863	368.863	368.863	368.863

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	814.242	814.242	814.242	814.242	814.242	814.242	814.242	814.242	814.242
5	809.613	809.631	809.666	809.735	809.770	809.761	809.813	809.866	809.970
10	796.790	796.859	796.920	796.972	797.024	797.024	797.068	797.164	797.251
15	775.570	775.692	775.770	775.875	775.944	775.901	775.901	775.962	776.014
20	746.947	747.043	747.104	747.182	747.260	747.287	747.356	747.347	747.295
25	710.694	710.816	710.938	710.981	711.051	711.095	711.155	711.121	711.086
30	668.378	668.482	668.621	668.717	668.795	668.847	668.847	668.882	668.865
35	621.032	621.171	621.363	621.441	621.563	621.598	621.580	621.598	621.528
40	569.519	569.650	569.754	569.902	569.998	570.041	570.015	569.989	569.911
45	513.926	514.040	514.153	514.240	514.361	514.422	514.422	514.353	514.344
50	454.836	455.062	455.219	455.341	455.410	455.541	455.541	455.454	455.515
55	394.084	394.188	394.354	394.449	394.562	394.676	394.745	394.719	394.702
60	338.613	338.674	338.769	338.822	338.900	339.013	339.117	339.030	339.004

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CANDELA TABULATION - (Cont.)

65	275.085	275.138	275.198	275.251	275.242	275.259	275.320	275.251	275.225
70	211.245	211.314	211.358	211.340	211.384	211.314	211.375	211.297	211.158
75	149.492	149.527	149.518	149.510	149.536	149.536	149.579	149.510	149.414
80	90.706	90.698	90.680	90.663	90.671	90.689	90.724	90.628	90.489
85	37.915	37.871	37.802	37.732	37.645	37.567	37.549	37.410	37.375
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	17.156	17.174	17.261	17.270	17.391	17.548	17.591	17.235	17.087
100	33.086	33.025	33.043	32.999	33.060	33.069	32.860	32.329	32.286
105	53.514	53.531	53.540	53.366	53.079	52.931	52.496	51.869	51.791
110	75.299	75.246	75.194	74.959	74.820	74.629	74.081	73.828	73.733
115	98.789	98.762	98.641	98.806	98.615	98.066	97.771	97.362	97.205
120	122.914	123.062	123.253	123.314	123.053	122.426	122.061	121.844	121.417
125	146.743	147.074	147.152	147.100	146.847	146.073	145.864	145.734	145.229
130	174.470	174.670	174.574	174.322	173.687	173.304	173.026	172.930	172.678
135	203.537	203.467	203.232	202.814	202.284	201.736	201.536	201.518	201.379
140	232.046	231.925	231.385	230.837	230.115	229.071	228.984	228.758	228.410
145	259.434	259.008	258.355	257.999	257.746	257.242	257.024	256.894	256.824
150	285.282	284.977	284.629	284.186	283.733	283.785	283.368	283.681	284.072
155	308.954	308.841	308.676	308.171	307.371	307.206	307.580	306.884	307.058
160	329.565	329.547	329.330	328.616	328.147	328.086	327.555	328.956	328.556
165	346.504	346.408	345.677	345.399	345.164	344.398	345.146	346.025	345.581
170	359.293	359.023	358.579	358.214	357.761	357.718	357.692	357.631	357.570
175	367.349	367.105	366.740	366.244	365.452	365.191	364.887	364.365	364.661
180	368.863	368.863	368.863	368.863	368.863	368.863	368.863	368.863	368.863

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	295.61	N.A.	9.40
0-30	622.92	N.A.	19.90
0-40	1011.31	N.A.	32.30
0-60	1761.52	N.A.	56.20
0-80	2192.68	N.A.	70.00
0-90	2238.09	N.A.	71.40
10-90	2161.21	N.A.	69.00
20-40	715.70	N.A.	22.80
20-50	1111.89	N.A.	35.50
40-70	1022.7	N.A.	32.60
60-80	431.16	N.A.	13.80
70-80	158.67	N.A.	5.10
80-90	45.42	N.A.	1.40
90-110	75.49	N.A.	2.40
90-120	173.29	N.A.	5.50
90-130	304.85	N.A.	9.70
90-150	621.12	N.A.	19.80
90-180	894.70	N.A.	28.60
110-180	819.21	N.A.	26.10
0-180	3132.79	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	76.88
10-20	218.73
20-30	327.32
30-40	388.39
40-50	396.18
50-60	354.03
60-70	272.49
70-80	158.67
80-90	45.42
90-100	18.78
100-110	56.71
110-120	97.80
120-130	131.56
130-140	155.41
140-150	160.86
150-160	141.56
160-170	97.33
170-180	34.70

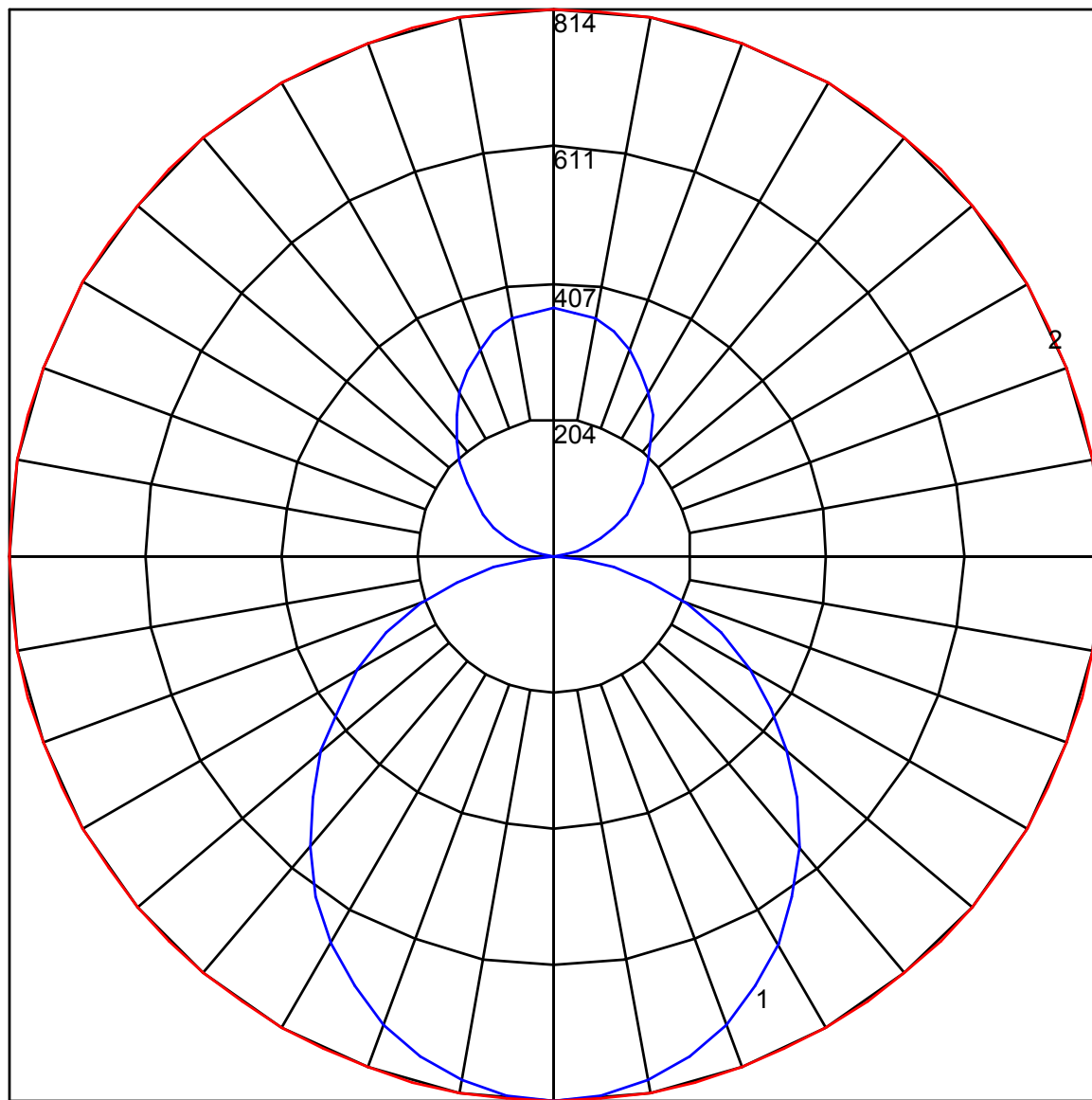
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 814.242 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.)