



IES INDOOR REPORT

PHOTOMETRIC FILENAME : O-30-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-30-LED4-HO-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	7346
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	143
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	2196	2200	2202
55	1954	1953	1957
65	1682	1680	1681
75	1240	1237	1237
85	518	512	504

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1909.256	1909.256	1909.256	1909.256	1909.256	1909.256	1909.256	1909.256	1909.256	1909.256
5	1898.873	1898.750	1898.648	1898.485	1898.363	1898.159	1898.118	1898.098	1898.200	1898.281
10	1868.008	1867.967	1867.865	1867.885	1868.028	1868.008	1867.967	1867.926	1868.130	1868.252
15	1817.334	1817.436	1817.518	1817.660	1817.701	1817.660	1817.660	1817.864	1818.130	1818.293
20	1749.606	1749.626	1749.626	1749.830	1750.014	1750.034	1750.116	1750.504	1750.891	1751.136
25	1664.048	1664.212	1664.232	1664.416	1664.824	1664.987	1665.272	1665.558	1665.844	1666.109
30	1564.721	1564.741	1564.843	1565.108	1565.496	1565.741	1565.965	1566.332	1566.638	1566.842
35	1453.826	1453.908	1453.928	1454.112	1454.336	1454.765	1455.091	1455.418	1455.662	1455.989
40	1332.202	1332.406	1332.304	1332.487	1332.732	1333.242	1333.772	1334.323	1334.833	1335.078
45	1202.682	1202.621	1202.376	1202.437	1202.621	1202.723	1202.743	1203.110	1204.130	1204.681
50	1065.614	1065.574	1065.308	1065.104	1065.125	1065.125	1065.227	1065.431	1065.635	1065.920
55	924.202	924.120	923.794	923.651	923.467	923.304	923.345	923.549	923.692	923.875
60	795.008	795.110	794.866	794.723	794.519	793.866	793.519	793.601	793.682	793.805
65	645.803	645.864	646.109	645.517	645.640	645.313	645.313	645.334	645.130	644.966
70	496.230	495.944	495.965	495.740	495.720	495.598	495.557	495.577	495.434	495.394
75	351.166	350.839	351.002	350.900	350.880	350.758	350.656	350.696	350.635	350.574
80	213.792	213.772	213.629	213.568	213.568	213.527	213.384	213.200	213.017	212.813
85	90.209	90.209	90.127	90.086	90.025	89.842	89.658	89.515	89.352	89.107
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	45.186	45.084	44.778	44.227	43.595	42.840	42.126	41.473	40.902	40.453
100	79.723	79.540	79.356	79.458	79.274	79.030	78.744	78.377	78.173	77.785
105	124.664	124.807	125.521	125.888	126.092	126.276	126.113	126.072	125.501	125.113
110	176.134	175.970	176.582	176.929	176.868	176.786	176.501	176.440	176.644	176.644
115	231.826	231.601	231.928	231.724	232.519	232.886	232.336	232.172	231.703	231.152
120	287.722	288.068	288.374	289.252	289.578	288.864	287.926	287.783	287.966	287.579
125	340.415	341.006	339.986	339.844	341.251	341.843	342.536	343.454	343.475	343.658
130	400.432	400.819	400.493	401.064	403.165	405.124	405.940	406.633	407.470	407.837
135	465.834	465.712	465.487	466.262	468.792	470.240	471.424	472.954	475.340	476.585
140	528.258	528.401	528.768	528.911	532.114	536.377	540.029	542.518	543.925	544.027
145	596.904	596.618	596.720	597.618	599.862	602.269	604.513	606.941	608.042	609.022
150	661.980	660.430	660.817	661.715	662.531	664.040	666.448	667.039	668.324	668.773
155	718.264	718.121	719.386	717.876	718.386	720.140	722.242	722.894	724.159	724.220
160	769.753	769.672	767.142	767.754	768.223	769.325	771.508	772.140	772.222	772.507
165	810.166	811.430	809.880	808.268	809.350	810.023	810.737	812.287	812.552	812.063
170	840.092	840.419	839.970	838.664	839.032	840.337	840.990	842.683	842.602	841.704
175	856.004	855.576	855.494	856.392	857.208	859.289	860.023	861.206	861.308	859.738
180	864.919	864.919	864.919	864.919	864.919	864.919	864.919	864.919	864.919	864.919

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	1909.256	1909.256	1909.256	1909.256	1909.256	1909.256	1909.256	1909.256	1909.256
5	1898.404	1898.444	1898.526	1898.689	1898.771	1898.750	1898.873	1898.995	1899.240
10	1868.334	1868.497	1868.640	1868.762	1868.885	1868.885	1868.987	1869.211	1869.415
15	1818.578	1818.864	1819.048	1819.292	1819.456	1819.354	1819.354	1819.496	1819.619
20	1751.462	1751.687	1751.830	1752.013	1752.197	1752.258	1752.421	1752.401	1752.278
25	1666.456	1666.741	1667.027	1667.129	1667.292	1667.394	1667.537	1667.455	1667.374
30	1567.230	1567.475	1567.801	1568.026	1568.209	1568.332	1568.332	1568.413	1568.372
35	1456.213	1456.540	1456.988	1457.172	1457.458	1457.539	1457.498	1457.539	1457.376
40	1335.425	1335.731	1335.976	1336.322	1336.547	1336.649	1336.588	1336.526	1336.343
45	1205.069	1205.334	1205.599	1205.803	1206.089	1206.232	1206.232	1206.068	1206.048
50	1066.512	1067.042	1067.410	1067.695	1067.858	1068.164	1068.164	1067.960	1068.103
55	924.059	924.304	924.691	924.916	925.181	925.446	925.609	925.548	925.507
60	793.988	794.131	794.356	794.478	794.662	794.927	795.172	794.968	794.906

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65	645.028	645.150	645.293	645.415	645.395	645.436	645.578	645.415	645.354
70	495.332	495.496	495.598	495.557	495.659	495.496	495.638	495.455	495.128
75	350.533	350.615	350.594	350.574	350.635	350.635	350.737	350.574	350.350
80	212.690	212.670	212.629	212.588	212.609	212.650	212.731	212.507	212.180
85	88.903	88.801	88.638	88.475	88.271	88.087	88.046	87.720	87.638
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	40.229	40.270	40.474	40.494	40.780	41.147	41.249	40.412	40.066
100	77.581	77.438	77.479	77.377	77.520	77.540	77.051	75.806	75.704
105	125.480	125.521	125.542	125.134	124.460	124.114	123.094	121.625	121.441
110	176.562	176.440	176.317	175.766	175.440	174.991	173.706	173.114	172.890
115	231.642	231.581	231.295	231.683	231.234	229.949	229.255	228.296	227.929
120	288.211	288.558	289.007	289.150	288.538	287.069	286.212	285.702	284.702
125	344.087	344.862	345.046	344.923	344.332	342.516	342.026	341.720	340.537
130	409.102	409.571	409.346	408.755	407.266	406.368	405.715	405.491	404.899
135	477.258	477.095	476.544	475.565	474.320	473.035	472.566	472.525	472.199
140	544.109	543.823	542.558	541.273	539.580	537.132	536.928	536.398	535.582
145	608.328	607.328	605.798	604.962	604.370	603.187	602.677	602.371	602.208
150	668.936	668.222	667.406	666.366	665.305	665.428	664.448	665.183	666.101
155	724.445	724.180	723.792	722.609	720.732	720.344	721.222	719.590	719.998
160	772.772	772.732	772.222	770.549	769.447	769.304	768.060	771.344	770.406
165	812.491	812.267	810.553	809.900	809.350	807.554	809.309	811.369	810.329
170	842.479	841.847	840.806	839.950	838.889	838.787	838.726	838.583	838.440
175	861.370	860.798	859.942	858.779	856.922	856.310	855.596	854.372	855.066
180	864.919	864.919	864.919	864.919	864.919	864.919	864.919	864.919	864.919

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	693.15	N.A.	9.40
0-30	1460.65	N.A.	19.90
0-40	2371.35	N.A.	32.30
0-60	4130.46	N.A.	56.20
0-80	5141.44	N.A.	70.00
0-90	5247.94	N.A.	71.40
10-90	5067.66	N.A.	69.00
20-40	1678.2	N.A.	22.80
20-50	2607.18	N.A.	35.50
40-70	2398.05	N.A.	32.60
60-80	1010.98	N.A.	13.80
70-80	372.05	N.A.	5.10
80-90	106.49	N.A.	1.40
90-110	177.01	N.A.	2.40
90-120	406.34	N.A.	5.50
90-130	714.82	N.A.	9.70
90-150	1456.42	N.A.	19.80
90-180	2097.93	N.A.	28.60
110-180	1920.92	N.A.	26.10
0-180	7345.86	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.28
10-20	512.88
20-30	767.50
30-40	910.70
40-50	928.98
50-60	830.13
60-70	638.94
70-80	372.05
80-90	106.49
90-100	44.04
100-110	132.97
110-120	229.33
120-130	308.48
130-140	364.41
140-150	377.19
150-160	331.93
160-170	228.22
170-180	81.36

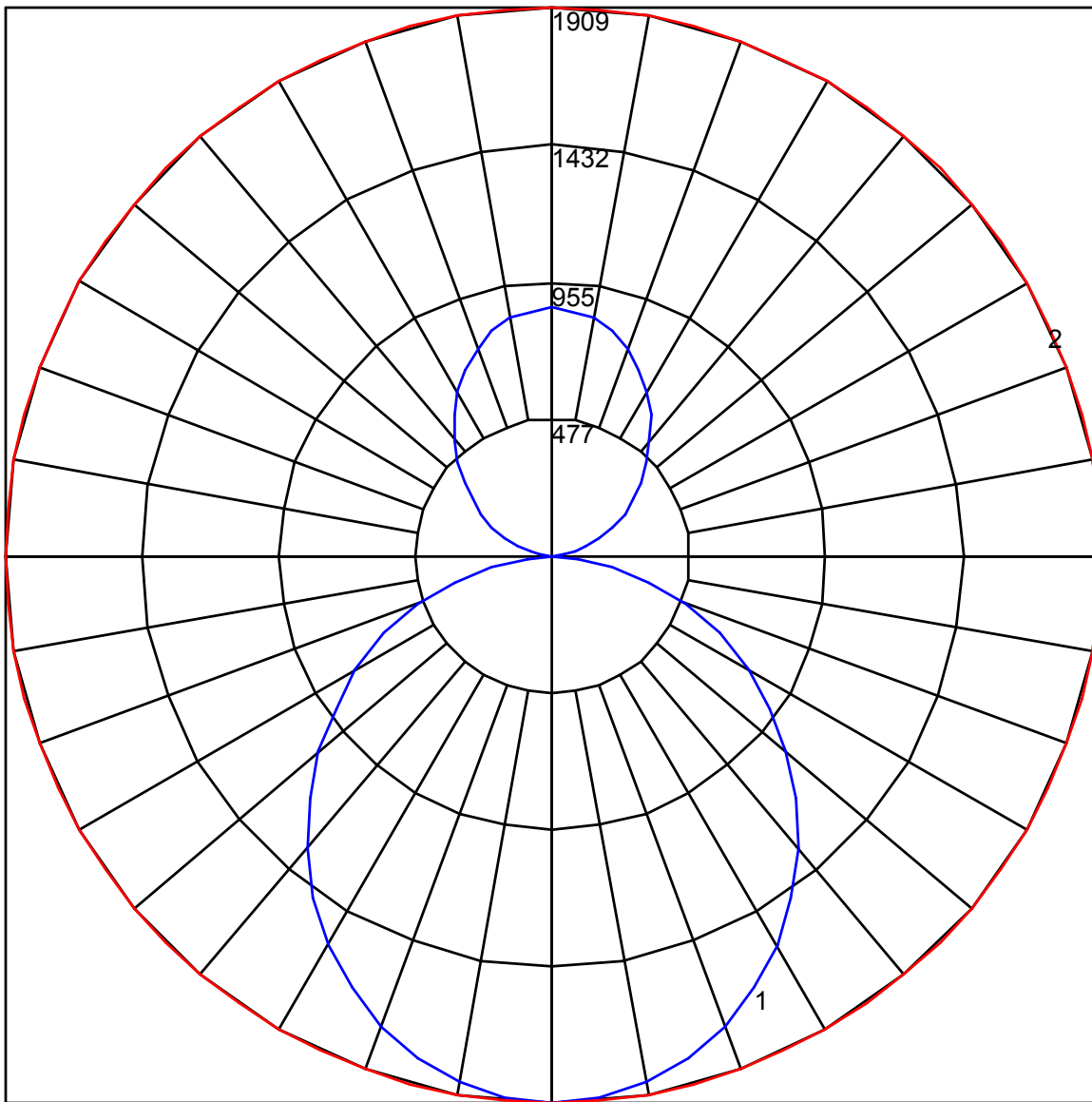
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1909.256 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.)