



IES INDOOR REPORT

PHOTOMETRIC FILENAME : O-30-LED4-SO-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-SO-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	6302
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	111
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	1884	1887	1889
55	1676	1676	1679
65	1443	1441	1442
75	1063	1062	1061
85	445	439	432

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1637.843	1637.842	1637.842	1637.842	1637.842	1637.842	1637.842	1637.842	1637.842	1637.842
5	1628.935	1628.830	1628.743	1628.602	1628.497	1628.322	1628.287	1628.270	1628.358	1628.428
10	1602.457	1602.422	1602.335	1602.352	1602.475	1602.457	1602.422	1602.388	1602.563	1602.668
15	1558.987	1559.075	1559.145	1559.267	1559.303	1559.267	1559.267	1559.443	1559.670	1559.810
20	1500.888	1500.905	1500.905	1501.080	1501.237	1501.255	1501.325	1501.658	1501.990	1502.200
25	1427.493	1427.632	1427.650	1427.807	1428.158	1428.297	1428.543	1428.787	1429.033	1429.260
30	1342.285	1342.303	1342.390	1342.618	1342.950	1343.160	1343.352	1343.668	1343.930	1344.105
35	1247.155	1247.225	1247.243	1247.400	1247.592	1247.960	1248.240	1248.520	1248.730	1249.010
40	1142.820	1142.995	1142.908	1143.065	1143.275	1143.713	1144.168	1144.640	1145.078	1145.287
45	1031.713	1031.660	1031.450	1031.503	1031.660	1031.747	1031.765	1032.080	1032.955	1033.428
50	914.130	914.095	913.867	913.692	913.710	913.710	913.798	913.972	914.148	914.393
55	792.820	792.750	792.470	792.347	792.190	792.050	792.085	792.260	792.383	792.540
60	681.992	682.080	681.870	681.747	681.572	681.013	680.715	680.785	680.855	680.960
65	553.997	554.050	554.260	553.753	553.857	553.577	553.577	553.595	553.420	553.280
70	425.688	425.442	425.460	425.267	425.250	425.145	425.110	425.127	425.005	424.970
75	301.245	300.965	301.105	301.017	301.000	300.895	300.808	300.842	300.790	300.738
80	183.400	183.382	183.260	183.208	183.208	183.173	183.050	182.893	182.735	182.560
85	77.385	77.385	77.315	77.280	77.228	77.070	76.912	76.790	76.650	76.440
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	38.763	38.675	38.413	37.940	37.398	36.750	36.138	35.578	35.087	34.703
100	68.390	68.233	68.075	68.162	68.005	67.795	67.550	67.235	67.060	66.728
105	106.942	107.065	107.677	107.993	108.168	108.325	108.185	108.150	107.660	107.328
110	151.095	150.955	151.480	151.778	151.725	151.655	151.410	151.357	151.532	151.532
115	198.870	198.678	198.958	198.782	199.465	199.780	199.308	199.167	198.765	198.292
120	246.820	247.118	247.380	248.132	248.412	247.800	246.995	246.873	247.030	246.697
125	292.022	292.530	291.655	291.533	292.740	293.248	293.842	294.630	294.647	294.805
130	343.507	343.840	343.560	344.050	345.853	347.533	348.233	348.827	349.545	349.860
135	399.613	399.507	399.315	399.980	402.150	403.392	404.408	405.720	407.767	408.835
140	453.163	453.285	453.600	453.723	456.470	460.127	463.260	465.395	466.603	466.690
145	512.050	511.805	511.892	512.663	514.587	516.653	518.577	520.660	521.605	522.445
150	567.875	566.545	566.878	567.648	568.347	569.643	571.707	572.215	573.317	573.702
155	616.158	616.035	617.120	615.825	616.263	617.768	619.570	620.130	621.215	621.268
160	660.327	660.258	658.087	658.612	659.015	659.960	661.832	662.375	662.445	662.690
165	694.995	696.080	694.750	693.367	694.295	694.872	695.485	696.815	697.043	696.622
170	720.668	720.947	720.563	719.442	719.758	720.878	721.438	722.890	722.820	722.050
175	734.317	733.950	733.880	734.650	735.350	737.135	737.765	738.780	738.867	737.520
180	741.965	741.965	741.965	741.965	741.965	741.965	741.965	741.965	741.965	741.965

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	1637.842	1637.842	1637.842	1637.842	1637.842	1637.842	1637.842	1637.842	1637.842
5	1628.533	1628.568	1628.638	1628.777	1628.848	1628.830	1628.935	1629.040	1629.250
10	1602.737	1602.878	1603.000	1603.105	1603.210	1603.210	1603.297	1603.490	1603.665
15	1560.055	1560.300	1560.457	1560.668	1560.807	1560.720	1560.720	1560.842	1560.947
20	1502.480	1502.672	1502.795	1502.953	1503.110	1503.162	1503.303	1503.285	1503.180
25	1429.557	1429.803	1430.047	1430.135	1430.275	1430.362	1430.485	1430.415	1430.345
30	1344.438	1344.648	1344.928	1345.120	1345.277	1345.382	1345.382	1345.453	1345.418
35	1249.203	1249.483	1249.868	1250.025	1250.270	1250.340	1250.305	1250.340	1250.200
40	1145.585	1145.848	1146.057	1146.355	1146.547	1146.635	1146.582	1146.530	1146.372
45	1033.760	1033.987	1034.215	1034.390	1034.635	1034.757	1034.757	1034.618	1034.600
50	914.900	915.355	915.670	915.915	916.055	916.317	916.317	916.143	916.265
55	792.697	792.908	793.240	793.433	793.660	793.888	794.028	793.975	793.940
60	681.117	681.240	681.433	681.538	681.695	681.923	682.133	681.957	681.905

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65	553.332	553.438	553.560	553.665	553.648	553.683	553.805	553.665	553.612
70	424.918	425.058	425.145	425.110	425.197	425.058	425.180	425.022	424.743
75	300.702	300.772	300.755	300.738	300.790	300.790	300.877	300.738	300.545
80	182.455	182.438	182.403	182.368	182.385	182.420	182.490	182.298	182.018
85	76.265	76.177	76.037	75.897	75.722	75.565	75.530	75.250	75.180
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	34.510	34.545	34.720	34.737	34.983	35.297	35.385	34.667	34.370
100	66.552	66.430	66.465	66.377	66.500	66.517	66.097	65.030	64.942
105	107.642	107.677	107.695	107.345	106.767	106.470	105.595	104.335	104.177
110	151.463	151.357	151.252	150.780	150.500	150.115	149.012	148.505	148.313
115	198.713	198.660	198.415	198.748	198.363	197.260	196.665	195.843	195.528
120	247.240	247.537	247.923	248.045	247.520	246.260	245.525	245.088	244.230
125	295.173	295.837	295.995	295.890	295.382	293.825	293.405	293.142	292.127
130	350.945	351.348	351.155	350.647	349.370	348.600	348.040	347.848	347.340
135	409.413	409.272	408.800	407.960	406.892	405.790	405.387	405.353	405.072
140	466.760	466.515	465.430	464.327	462.875	460.775	460.600	460.145	459.445
145	521.850	520.992	519.680	518.962	518.455	517.440	517.003	516.740	516.600
150	573.842	573.230	572.530	571.638	570.727	570.832	569.992	570.622	571.410
155	621.460	621.232	620.900	619.885	618.275	617.942	618.695	617.295	617.645
160	662.918	662.883	662.445	661.010	660.065	659.942	658.875	661.692	660.888
165	696.990	696.798	695.327	694.768	694.295	692.755	694.260	696.028	695.135
170	722.715	722.173	721.280	720.545	719.635	719.548	719.495	719.372	719.250
175	738.920	738.430	737.695	736.697	735.105	734.580	733.967	732.918	733.513
180	741.965	741.965	741.965	741.965	741.965	741.965	741.965	741.965	741.965

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	594.62	N.A.	9.40
0-30	1253.01	N.A.	19.90
0-40	2034.25	N.A.	32.30
0-60	3543.29	N.A.	56.20
0-80	4410.55	N.A.	70.00
0-90	4501.91	N.A.	71.40
10-90	4347.26	N.A.	69.00
20-40	1439.63	N.A.	22.80
20-50	2236.55	N.A.	35.50
40-70	2057.15	N.A.	32.60
60-80	867.27	N.A.	13.80
70-80	319.16	N.A.	5.10
80-90	91.35	N.A.	1.40
90-110	151.85	N.A.	2.40
90-120	348.58	N.A.	5.50
90-130	613.20	N.A.	9.70
90-150	1249.38	N.A.	19.80
90-180	1799.69	N.A.	28.60
110-180	1647.84	N.A.	26.10
0-180	6301.6	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.65
10-20	439.97
20-30	658.39
30-40	781.24
40-50	796.92
50-60	712.12
60-70	548.11
70-80	319.16
80-90	91.35
90-100	37.78
100-110	114.07
110-120	196.73
120-130	264.62
130-140	312.61
140-150	323.57
150-160	284.74
160-170	195.78
170-180	69.79

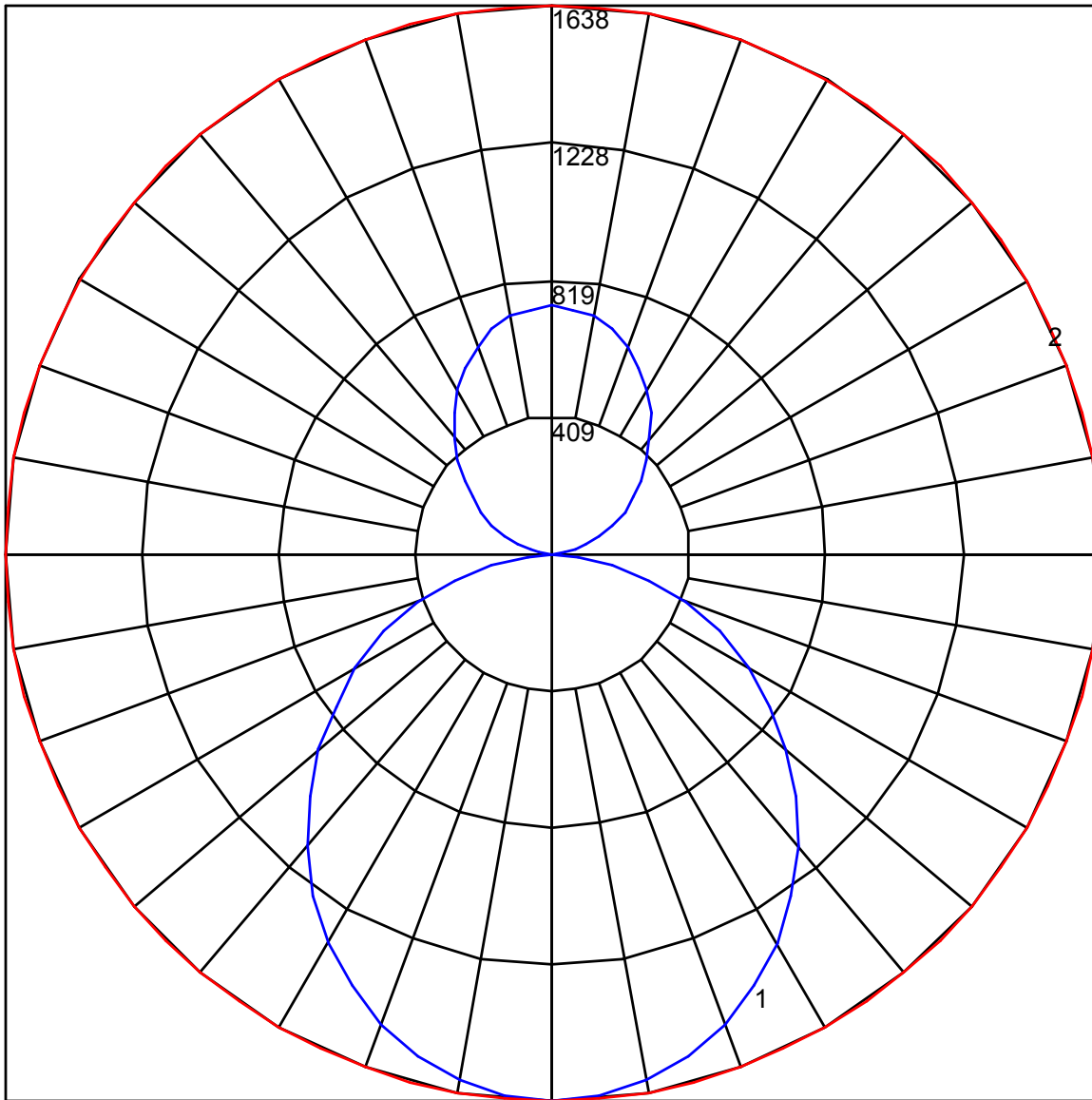
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1637.843 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.)