



IES INDOOR REPORT

PHOTOMETRIC FILENAME : O-20-LED4-MO-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-20-LED4-MO-D9
 [LUMINAIRE] 24"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	2521
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	42
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	754	755	756
55	670	670	671
65	577	576	577
75	425	425	424
85	178	176	173

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	655.137	655.137	655.137	655.137	655.137	655.137	655.137	655.137	655.137	655.137
5	651.574	651.532	651.497	651.441	651.399	651.329	651.315	651.308	651.343	651.371
10	640.983	640.969	640.934	640.941	640.990	640.983	640.969	640.955	641.025	641.067
15	623.595	623.630	623.658	623.707	623.721	623.707	623.707	623.777	623.868	623.924
20	600.355	600.362	600.362	600.432	600.495	600.502	600.530	600.663	600.796	600.880
25	570.997	571.053	571.060	571.123	571.263	571.319	571.417	571.515	571.613	571.704
30	536.914	536.921	536.956	537.047	537.180	537.264	537.341	537.467	537.572	537.642
35	498.862	498.890	498.897	498.960	499.037	499.184	499.296	499.408	499.492	499.604
40	457.128	457.198	457.163	457.226	457.310	457.485	457.667	457.856	458.031	458.115
45	412.685	412.664	412.580	412.601	412.664	412.699	412.706	412.832	413.182	413.371
50	365.652	365.638	365.547	365.477	365.484	365.484	365.519	365.589	365.659	365.757
55	317.128	317.100	316.988	316.939	316.876	316.820	316.834	316.904	316.953	317.016
60	272.797	272.832	272.748	272.699	272.629	272.405	272.286	272.314	272.342	272.384
65	221.599	221.620	221.704	221.501	221.543	221.431	221.431	221.438	221.368	221.312
70	170.275	170.177	170.184	170.107	170.100	170.058	170.044	170.051	170.002	169.988
75	120.498	120.386	120.442	120.407	120.400	120.358	120.323	120.337	120.316	120.295
80	73.360	73.353	73.304	73.283	73.283	73.269	73.220	73.157	73.094	73.024
85	30.954	30.954	30.926	30.912	30.891	30.828	30.765	30.716	30.660	30.576
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	15.505	15.470	15.365	15.176	14.959	14.700	14.455	14.231	14.035	13.881
100	27.356	27.293	27.230	27.265	27.202	27.118	27.020	26.894	26.824	26.691
105	42.777	42.826	43.071	43.197	43.267	43.330	43.274	43.260	43.064	42.931
110	60.438	60.382	60.592	60.711	60.690	60.662	60.564	60.543	60.613	60.613
115	79.548	79.471	79.583	79.513	79.786	79.912	79.723	79.667	79.506	79.317
120	98.728	98.847	98.952	99.253	99.365	99.120	98.798	98.749	98.812	98.679
125	116.809	117.012	116.662	116.613	117.096	117.299	117.537	117.852	117.859	117.922
130	137.403	137.536	137.424	137.620	138.341	139.013	139.293	139.531	139.818	139.944
135	159.845	159.803	159.726	159.992	160.860	161.357	161.763	162.288	163.107	163.534
140	181.265	181.314	181.440	181.489	182.588	184.051	185.304	186.158	186.641	186.676
145	204.820	204.722	204.757	205.065	205.835	206.661	207.431	208.264	208.642	208.978
150	227.150	226.618	226.751	227.059	227.339	227.857	228.683	228.886	229.327	229.481
155	246.463	246.414	246.848	246.330	246.505	247.107	247.828	248.052	248.486	248.507
160	264.131	264.103	263.235	263.445	263.606	263.984	264.733	264.950	264.978	265.076
165	277.998	278.432	277.900	277.347	277.718	277.949	278.194	278.726	278.817	278.649
170	288.267	288.379	288.225	287.777	287.903	288.351	288.575	289.156	289.128	288.820
175	293.727	293.580	293.552	293.860	294.140	294.854	295.106	295.512	295.547	295.008
180	296.786	296.786	296.786	296.786	296.786	296.786	296.786	296.786	296.786	296.786

**Vert.
Angles**

Horizontal Angles

	50	55	60	65	70	75	80	85	90
0	655.137	655.137	655.137	655.137	655.137	655.137	655.137	655.137	655.137
5	651.413	651.427	651.455	651.511	651.539	651.532	651.574	651.616	651.700
10	641.095	641.151	641.200	641.242	641.284	641.284	641.319	641.396	641.466
15	624.022	624.120	624.183	624.267	624.323	624.288	624.288	624.337	624.379
20	600.992	601.069	601.118	601.181	601.244	601.265	601.321	601.314	601.272
25	571.823	571.921	572.019	572.054	572.110	572.145	572.194	572.166	572.138
30	537.775	537.859	537.971	538.048	538.111	538.153	538.153	538.181	538.167
35	499.681	499.793	499.947	500.010	500.108	500.136	500.122	500.136	500.080
40	458.234	458.339	458.423	458.542	458.619	458.654	458.633	458.612	458.549
45	413.504	413.595	413.686	413.756	413.854	413.903	413.903	413.847	413.840
50	365.960	366.142	366.268	366.366	366.422	366.527	366.527	366.457	366.506
55	317.079	317.163	317.296	317.373	317.464	317.555	317.611	317.590	317.576
60	272.447	272.496	272.573	272.615	272.678	272.769	272.853	272.783	272.762

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CANDELA TABULATION - (Cont.)

65	221.333	221.375	221.424	221.466	221.459	221.473	221.522	221.466	221.445
70	169.967	170.023	170.058	170.044	170.079	170.023	170.072	170.009	169.897
75	120.281	120.309	120.302	120.295	120.316	120.316	120.351	120.295	120.218
80	72.982	72.975	72.961	72.947	72.954	72.968	72.996	72.919	72.807
85	30.506	30.471	30.415	30.359	30.289	30.226	30.212	30.100	30.072
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	13.804	13.818	13.888	13.895	13.993	14.119	14.154	13.867	13.748
100	26.621	26.572	26.586	26.551	26.600	26.607	26.439	26.012	25.977
105	43.057	43.071	43.078	42.938	42.707	42.588	42.238	41.734	41.671
110	60.585	60.543	60.501	60.312	60.200	60.046	59.605	59.402	59.325
115	79.485	79.464	79.366	79.499	79.345	78.904	78.666	78.337	78.211
120	98.896	99.015	99.169	99.218	99.008	98.504	98.210	98.035	97.692
125	118.069	118.335	118.398	118.356	118.153	117.530	117.362	117.257	116.851
130	140.378	140.539	140.462	140.259	139.748	139.440	139.216	139.139	138.936
135	163.765	163.709	163.520	163.184	162.757	162.316	162.155	162.141	162.029
140	186.704	186.606	186.172	185.731	185.150	184.310	184.240	184.058	183.778
145	208.740	208.397	207.872	207.585	207.382	206.976	206.801	206.696	206.640
150	229.537	229.292	229.012	228.655	228.291	228.333	227.997	228.249	228.564
155	248.584	248.493	248.360	247.954	247.310	247.177	247.478	246.918	247.058
160	265.167	265.153	264.978	264.404	264.026	263.977	263.550	264.677	264.355
165	278.796	278.719	278.131	277.907	277.718	277.102	277.704	278.411	278.054
170	289.086	288.869	288.512	288.218	287.854	287.819	287.798	287.749	287.700
175	295.568	295.372	295.078	294.679	294.042	293.832	293.587	293.167	293.405
180	296.786	296.786	296.786	296.786	296.786	296.786	296.786	296.786	296.786

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	237.85	N.A.	9.40
0-30	501.20	N.A.	19.90
0-40	813.70	N.A.	32.30
0-60	1417.31	N.A.	56.20
0-80	1764.22	N.A.	70.00
0-90	1800.76	N.A.	71.40
10-90	1738.9	N.A.	69.00
20-40	575.85	N.A.	22.80
20-50	894.62	N.A.	35.50
40-70	822.86	N.A.	32.60
60-80	346.91	N.A.	13.80
70-80	127.66	N.A.	5.10
80-90	36.54	N.A.	1.40
90-110	60.74	N.A.	2.40
90-120	139.43	N.A.	5.50
90-130	245.28	N.A.	9.70
90-150	499.75	N.A.	19.80
90-180	719.88	N.A.	28.60
110-180	659.14	N.A.	26.10
0-180	2520.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.86
10-20	175.99
20-30	263.36
30-40	312.49
40-50	318.77
50-60	284.85
60-70	219.24
70-80	127.66
80-90	36.54
90-100	15.11
100-110	45.63
110-120	78.69
120-130	105.85
130-140	125.04
140-150	129.43
150-160	113.90
160-170	78.31
170-180	27.92

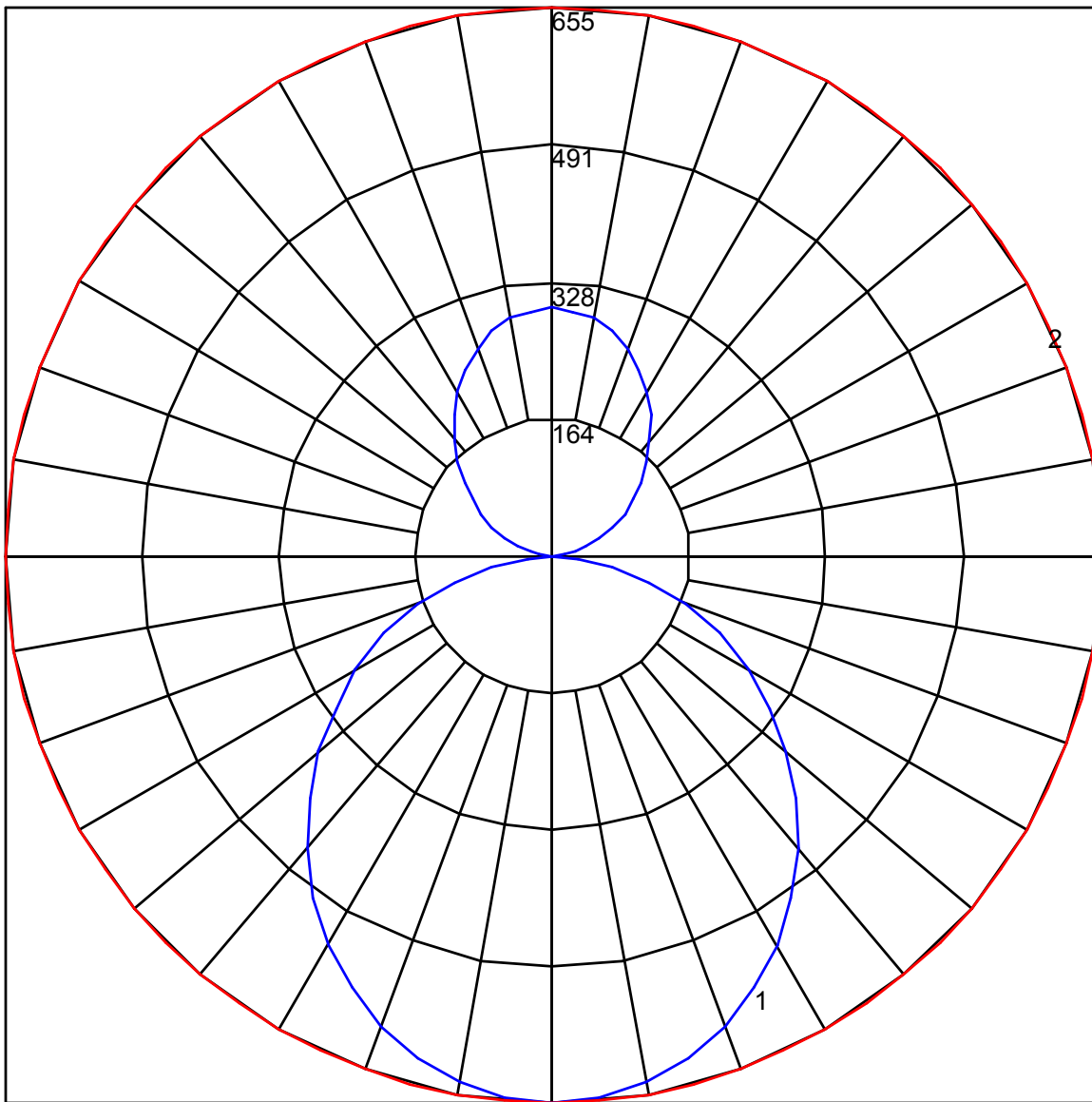
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	30	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 = 655.137 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.)