



IES INDOOR REPORT

PHOTOMETRIC FILENAME : O-20-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-20-LED4-HO-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	4681
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	92
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	1399	1402	1403
55	1245	1245	1247
65	1072	1070	1071
75	790	789	788
85	330	326	321

IES INDOOR REPORT
PHOTOMETRIC FILENAME : O-20-LED4-HO-D9.IES

CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1216.683	1216.683	1216.683	1216.683	1216.683	1216.683	1216.683	1216.683	1216.683	1216.683
5	1210.066	1209.988	1209.923	1209.819	1209.741	1209.611	1209.585	1209.572	1209.637	1209.689
10	1190.397	1190.371	1190.306	1190.319	1190.410	1190.397	1190.371	1190.345	1190.475	1190.553
15	1158.105	1158.170	1158.222	1158.313	1158.339	1158.313	1158.313	1158.443	1158.612	1158.716
20	1114.945	1114.958	1114.958	1115.088	1115.205	1115.218	1115.270	1115.517	1115.764	1115.920
25	1060.423	1060.527	1060.540	1060.657	1060.917	1061.021	1061.203	1061.385	1061.567	1061.736
30	997.126	997.139	997.204	997.373	997.620	997.776	997.919	998.153	998.348	998.478
35	926.458	926.510	926.523	926.640	926.783	927.056	927.264	927.472	927.628	927.836
40	848.952	849.082	849.017	849.134	849.290	849.615	849.953	850.304	850.629	850.785
45	766.415	766.376	766.220	766.259	766.376	766.441	766.454	766.688	767.338	767.689
50	679.068	679.042	678.873	678.743	678.756	678.756	678.821	678.951	679.081	679.263
55	588.952	588.900	588.692	588.601	588.484	588.380	588.406	588.536	588.627	588.744
60	506.623	506.688	506.532	506.441	506.311	505.895	505.674	505.726	505.778	505.856
65	411.541	411.580	411.736	411.359	411.437	411.229	411.229	411.242	411.112	411.008
70	316.225	316.043	316.056	315.913	315.900	315.822	315.796	315.809	315.718	315.692
75	223.782	223.574	223.678	223.613	223.600	223.522	223.457	223.483	223.444	223.405
80	136.240	136.227	136.136	136.097	136.097	136.071	135.980	135.863	135.746	135.616
85	57.486	57.486	57.434	57.408	57.369	57.252	57.135	57.044	56.940	56.784
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	28.795	28.730	28.535	28.184	27.781	27.300	26.845	26.429	26.065	25.779
100	50.804	50.687	50.570	50.635	50.518	50.362	50.180	49.946	49.816	49.569
105	79.443	79.534	79.989	80.223	80.353	80.470	80.366	80.340	79.976	79.729
110	112.242	112.138	112.528	112.749	112.710	112.658	112.476	112.437	112.567	112.567
115	147.732	147.589	147.797	147.667	148.174	148.408	148.057	147.953	147.654	147.303
120	183.352	183.573	183.768	184.327	184.535	184.080	183.482	183.391	183.508	183.261
125	216.931	217.308	216.658	216.567	217.464	217.841	218.283	218.868	218.881	218.998
130	255.177	255.424	255.216	255.580	256.919	258.167	258.687	259.129	259.662	259.896
135	296.855	296.777	296.634	297.128	298.740	299.663	300.417	301.392	302.913	303.706
140	336.635	336.726	336.960	337.051	339.092	341.809	344.136	345.722	346.619	346.684
145	380.380	380.198	380.263	380.835	382.265	383.799	385.229	386.776	387.478	388.102
150	421.850	420.862	421.109	421.681	422.201	423.163	424.697	425.074	425.893	426.179
155	457.717	457.626	458.432	457.470	457.795	458.913	460.252	460.668	461.474	461.513
160	490.529	490.477	488.865	489.255	489.554	490.256	491.647	492.050	492.102	492.284
165	516.282	517.088	516.100	515.073	515.762	516.191	516.646	517.634	517.803	517.491
170	535.353	535.561	535.275	534.443	534.677	535.509	535.925	537.004	536.952	536.380
175	545.493	545.220	545.168	545.740	546.260	547.586	548.054	548.808	548.873	547.872
180	551.174	551.174	551.174	551.174	551.174	551.174	551.174	551.174	551.174	551.174

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	1216.683	1216.683	1216.683	1216.683	1216.683	1216.683	1216.683	1216.683	1216.683
5	1209.767	1209.793	1209.845	1209.949	1210.001	1209.988	1210.066	1210.144	1210.300
10	1190.605	1190.709	1190.800	1190.878	1190.956	1190.956	1191.021	1191.164	1191.294
15	1158.898	1159.080	1159.197	1159.353	1159.457	1159.392	1159.392	1159.483	1159.561
20	1116.128	1116.271	1116.362	1116.479	1116.596	1116.635	1116.739	1116.726	1116.648
25	1061.957	1062.139	1062.321	1062.386	1062.490	1062.555	1062.646	1062.594	1062.542
30	998.725	998.881	999.089	999.232	999.349	999.427	999.427	999.479	999.453
35	927.979	928.187	928.473	928.590	928.772	928.824	928.798	928.824	928.720
40	851.006	851.201	851.357	851.578	851.721	851.786	851.747	851.708	851.591
45	767.936	768.105	768.274	768.404	768.586	768.677	768.677	768.573	768.560
50	679.640	679.978	680.212	680.394	680.498	680.693	680.693	680.563	680.654
55	588.861	589.017	589.264	589.407	589.576	589.745	589.849	589.810	589.784
60	505.973	506.064	506.207	506.285	506.402	506.571	506.727	506.597	506.558

IES INDOOR REPORT
PHOTOMETRIC FILENAME : O-20-LED4-HO-D9.IES

CANDELA TABULATION - (Cont.)

65	411.047	411.125	411.216	411.294	411.281	411.307	411.398	411.294	411.255
70	315.653	315.757	315.822	315.796	315.861	315.757	315.848	315.731	315.523
75	223.379	223.431	223.418	223.405	223.444	223.444	223.509	223.405	223.262
80	135.538	135.525	135.499	135.473	135.486	135.512	135.564	135.421	135.213
85	56.654	56.589	56.485	56.381	56.251	56.134	56.108	55.900	55.848
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	25.636	25.662	25.792	25.805	25.987	26.221	26.286	25.753	25.532
100	49.439	49.348	49.374	49.309	49.400	49.413	49.101	48.308	48.243
105	79.963	79.989	80.002	79.742	79.313	79.092	78.442	77.506	77.389
110	112.515	112.437	112.359	112.008	111.800	111.514	110.695	110.318	110.175
115	147.615	147.576	147.394	147.641	147.355	146.536	146.094	145.483	145.249
120	183.664	183.885	184.171	184.262	183.872	182.936	182.390	182.065	181.428
125	219.271	219.765	219.882	219.804	219.427	218.270	217.958	217.763	217.009
130	260.702	261.001	260.858	260.481	259.532	258.960	258.544	258.401	258.024
135	304.135	304.031	303.680	303.056	302.263	301.444	301.145	301.119	300.911
140	346.736	346.554	345.748	344.929	343.850	342.290	342.160	341.822	341.302
145	387.660	387.023	386.048	385.515	385.138	384.384	384.059	383.864	383.760
150	426.283	425.828	425.308	424.645	423.969	424.047	423.423	423.891	424.476
155	461.656	461.487	461.240	460.486	459.290	459.043	459.602	458.562	458.822
160	492.453	492.427	492.102	491.036	490.334	490.243	489.450	491.543	490.945
165	517.764	517.621	516.529	516.113	515.762	514.618	515.736	517.049	516.386
170	536.874	536.471	535.808	535.262	534.586	534.521	534.482	534.391	534.300
175	548.912	548.548	548.002	547.261	546.078	545.688	545.233	544.453	544.895
180	551.174	551.174	551.174	551.174	551.174	551.174	551.174	551.174	551.174

IES INDOOR REPORT
PHOTOMETRIC FILENAME : O-20-LED4-HO-D9.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	441.71	N.A.	9.40
0-30	930.81	N.A.	19.90
0-40	1511.15	N.A.	32.30
0-60	2632.16	N.A.	56.20
0-80	3276.41	N.A.	70.00
0-90	3344.27	N.A.	71.40
10-90	3229.39	N.A.	69.00
20-40	1069.44	N.A.	22.80
20-50	1661.44	N.A.	35.50
40-70	1528.17	N.A.	32.60
60-80	644.25	N.A.	13.80
70-80	237.09	N.A.	5.10
80-90	67.86	N.A.	1.40
90-110	112.80	N.A.	2.40
90-120	258.94	N.A.	5.50
90-130	455.52	N.A.	9.70
90-150	928.11	N.A.	19.80
90-180	1336.91	N.A.	28.60
110-180	1224.11	N.A.	26.10
0-180	4681.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.88
10-20	326.83
20-30	489.09
30-40	580.35
40-50	592.00
50-60	529.00
60-70	407.17
70-80	237.09
80-90	67.86
90-100	28.06
100-110	84.74
110-120	146.14
120-130	196.58
130-140	232.22
140-150	240.37
150-160	211.52
160-170	145.43
170-180	51.84

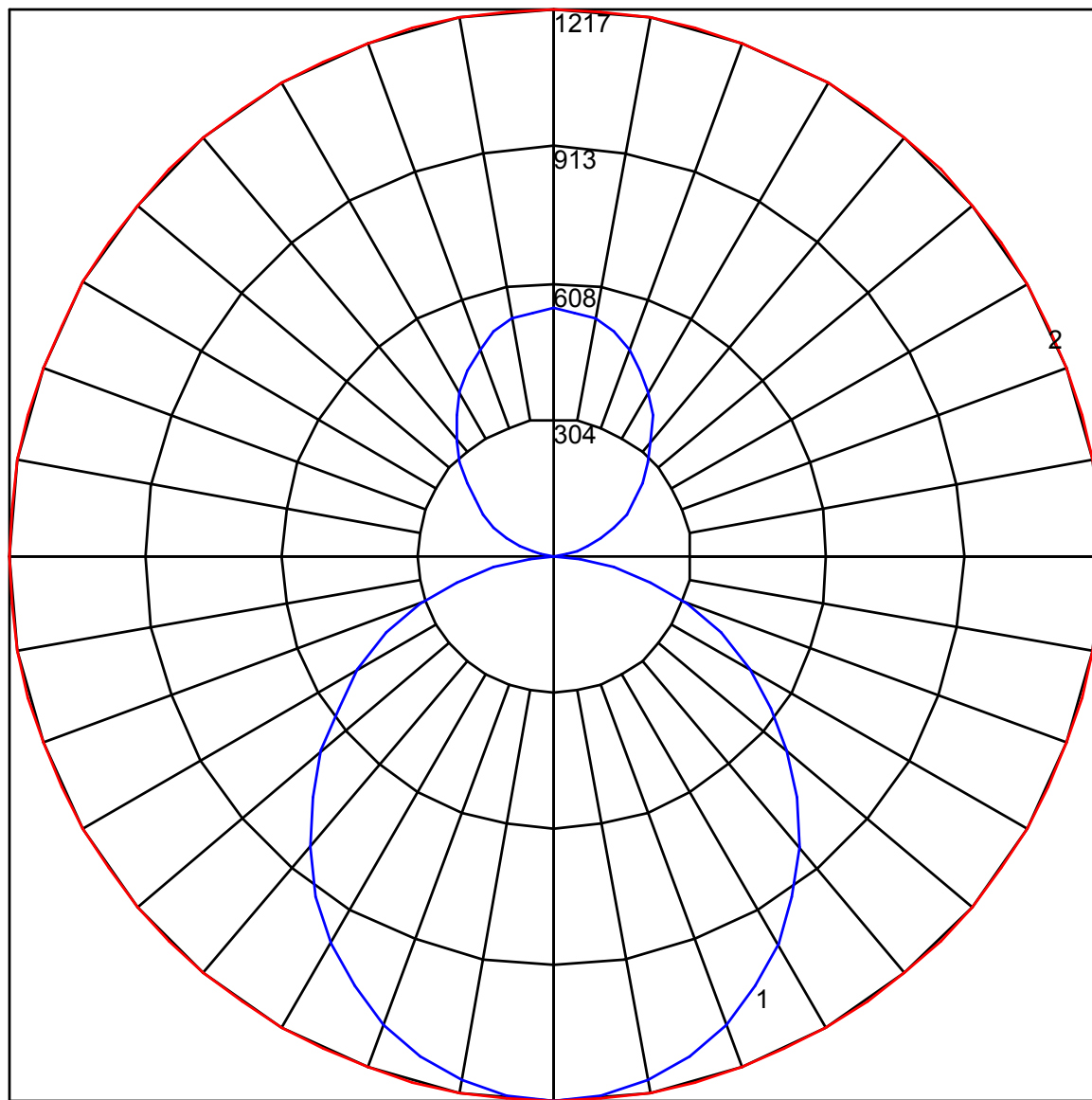
IES INDOOR REPORT
PHOTOMETRIC FILENAME : O-20-LED4-HO-D9.IES

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 = 1216.683 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.)