



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-22-LED35-HO-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Quad-20-LED35-HO-D1
 [TESTLAB] Intertek
 [ISSUE DATE] March 13, 2017
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5551
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	100
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.17 ft
Luminous Width (90-270)	3.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1922	1930	1939
55	1856	1868	1876
65	1760	1781	1788
75	1631	1666	1667
85	1430	1476	1465

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1910.911	1910.911	1910.911	1910.911	1910.911	1910.911	1910.911	1910.911	1910.911	1910.911
2.5	1908.999	1909.073	1908.512	1908.335	1908.961	1908.335	1908.512	1909.073	1908.999	1909.073
5.0	1902.120	1902.430	1902.365	1901.593	1902.600	1901.593	1902.365	1902.430	1902.120	1902.430
7.5	1891.183	1891.391	1891.446	1891.264	1891.905	1891.264	1891.446	1891.391	1891.183	1891.391
10.0	1875.711	1875.909	1876.108	1875.844	1876.588	1875.844	1876.108	1875.909	1875.711	1875.909
12.5	1856.128	1856.190	1856.342	1856.785	1857.554	1856.785	1856.342	1856.190	1856.128	1856.190
15.0	1832.531	1832.484	1833.194	1833.597	1834.754	1833.597	1833.194	1832.484	1832.531	1832.484
17.5	1804.662	1804.991	1805.676	1806.413	1807.570	1806.413	1805.676	1804.991	1804.662	1804.991
20.0	1772.943	1773.591	1774.846	1774.849	1776.855	1774.849	1774.846	1773.591	1772.943	1773.591
22.5	1737.621	1737.761	1738.846	1739.829	1741.558	1739.829	1738.846	1737.761	1737.621	1737.761
25.0	1698.016	1698.605	1699.860	1701.389	1702.982	1701.389	1699.860	1698.605	1698.016	1698.605
27.5	1655.360	1655.778	1657.133	1658.782	1661.188	1658.782	1657.133	1655.778	1655.360	1655.778
30.0	1607.238	1609.790	1611.008	1612.657	1615.909	1612.657	1611.008	1609.790	1607.238	1609.790
32.5	1556.845	1560.267	1561.994	1563.969	1567.190	1563.969	1561.994	1560.267	1556.845	1560.267
35.0	1504.585	1507.096	1509.998	1512.099	1514.734	1512.099	1509.998	1507.096	1504.585	1507.096
37.5	1450.654	1451.420	1454.412	1456.923	1459.359	1456.923	1454.412	1451.420	1450.654	1451.420
40.0	1393.670	1393.345	1396.863	1399.498	1401.770	1399.498	1396.863	1393.345	1393.670	1393.345
42.5	1332.991	1332.547	1335.954	1338.921	1341.556	1338.921	1335.954	1332.547	1332.991	1332.547
45.0	1267.485	1268.793	1272.730	1275.613	1278.273	1275.613	1272.730	1268.793	1267.485	1268.793
47.5	1200.227	1202.661	1206.613	1210.531	1212.097	1210.531	1206.613	1202.661	1200.227	1202.661
50.0	1132.483	1135.077	1138.794	1143.348	1143.984	1143.348	1138.794	1135.077	1132.483	1135.077
52.5	1063.759	1065.637	1069.528	1073.728	1074.538	1073.728	1069.528	1065.637	1063.759	1065.637
55.0	992.772	994.089	998.922	1002.639	1003.331	1002.639	998.922	994.089	992.772	994.089
57.5	919.262	921.342	926.420	930.508	930.043	930.508	926.420	921.342	919.262	921.342
60.0	844.381	847.379	851.967	856.989	855.600	856.989	851.967	847.379	844.381	847.379
62.5	768.998	772.858	777.003	781.876	780.512	781.876	777.003	772.858	768.998	772.858
65.0	693.678	698.486	701.800	705.830	704.819	705.830	701.800	698.486	693.678	698.486
67.5	618.971	622.725	626.718	630.506	628.534	630.506	626.718	622.725	618.971	622.725
70.0	543.663	547.085	551.949	554.999	552.243	554.999	551.949	547.085	543.663	547.085
72.5	468.292	472.669	476.154	480.063	477.211	480.063	476.154	472.669	468.292	472.669
75.0	393.585	399.736	402.014	405.666	402.392	405.666	402.014	399.736	393.585	399.736
77.5	321.368	327.019	330.051	331.638	329.040	331.638	330.051	327.019	321.368	327.019
80.0	250.967	255.586	258.097	259.334	256.271	259.334	258.097	255.586	250.967	255.586
82.5	182.757	185.892	187.742	188.961	186.062	188.961	187.742	185.892	182.757	185.892
85.0	116.244	118.876	119.945	121.542	119.056	121.542	119.945	118.876	116.244	118.876
87.5	53.168	55.422	55.791	57.586	55.400	57.586	55.791	55.422	53.168	55.422
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1910.911	1910.911	1910.911	1910.911	1910.911	1910.911	1910.911
2.5	1908.512	1908.335	1908.961	1908.335	1908.512	1909.073	1908.999
5.0	1902.365	1901.593	1902.600	1901.593	1902.365	1902.430	1902.120
7.5	1891.446	1891.264	1891.905	1891.264	1891.446	1891.391	1891.183
10.0	1876.108	1875.844	1876.588	1875.844	1876.108	1875.909	1875.711
12.5	1856.342	1856.785	1857.554	1856.785	1856.342	1856.190	1856.128
15.0	1833.194	1833.597	1834.754	1833.597	1833.194	1832.484	1832.531
17.5	1805.676	1806.413	1807.570	1806.413	1805.676	1804.991	1804.662
20.0	1774.846	1774.849	1776.855	1774.849	1774.846	1773.591	1772.943
22.5	1738.846	1739.829	1741.558	1739.829	1738.846	1737.761	1737.621
25.0	1699.860	1701.389	1702.982	1701.389	1699.860	1698.605	1698.016
27.5	1657.133	1658.782	1661.188	1658.782	1657.133	1655.778	1655.360
30.0	1611.008	1612.657	1615.909	1612.657	1611.008	1609.790	1607.238
32.5	1561.994	1563.969	1567.190	1563.969	1561.994	1560.267	1556.845
35.0	1509.998	1512.099	1514.734	1512.099	1509.998	1507.096	1504.585
37.5	1454.412	1456.923	1459.359	1456.923	1454.412	1451.420	1450.654
40.0	1396.863	1399.498	1401.770	1399.498	1396.863	1393.345	1393.670
42.5	1335.954	1338.921	1341.556	1338.921	1335.954	1332.547	1332.991
45.0	1272.730	1275.613	1278.273	1275.613	1272.730	1268.793	1267.485
47.5	1206.613	1210.531	1212.097	1210.531	1206.613	1202.661	1200.227
50.0	1138.794	1143.348	1143.984	1143.348	1138.794	1135.077	1132.483
52.5	1069.528	1073.728	1074.538	1073.728	1069.528	1065.637	1063.759
55.0	998.922	1002.639	1003.331	1002.639	998.922	994.089	992.772
57.5	926.420	930.508	930.043	930.508	926.420	921.342	919.262
60.0	851.967	856.989	855.600	856.989	851.967	847.379	844.381
62.5	777.003	781.876	780.512	781.876	777.003	772.858	768.998
65.0	701.800	705.830	704.819	705.830	701.800	698.486	693.678
67.5	626.718	630.506	628.534	630.506	626.718	622.725	618.971
70.0	551.949	554.999	552.243	554.999	551.949	547.085	543.663
72.5	476.154	480.063	477.211	480.063	476.154	472.669	468.292
75.0	402.014	405.666	402.392	405.666	402.014	399.736	393.585
77.5	330.051	331.638	329.040	331.638	330.051	327.019	321.368
80.0	258.097	259.334	256.271	259.334	258.097	255.586	250.967

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CANDELA TABULATION - (Cont.)

82.5	187.742	188.961	186.062	188.961	187.742	185.892	182.757
85.0	119.945	121.542	119.056	121.542	119.945	118.876	116.244
87.5	55.791	57.586	55.400	57.586	55.791	55.422	53.168
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	698.09	N.A.	12.60
0-30	1481.53	N.A.	26.70
0-40	2425.96	N.A.	43.70
0-60	4299.57	N.A.	77.40
0-80	5418.08	N.A.	97.60
0-90	5551.49	N.A.	100.00
10-90	5370.74	N.A.	96.70
20-40	1727.87	N.A.	31.10
20-50	2709.27	N.A.	48.80
40-70	2567.76	N.A.	46.30
60-80	1118.51	N.A.	20.10
70-80	424.36	N.A.	7.60
80-90	133.41	N.A.	2.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5551.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.75
10-20	517.34
20-30	783.44
30-40	944.42
40-50	981.40
50-60	892.21
60-70	694.15
70-80	424.36
80-90	133.41
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

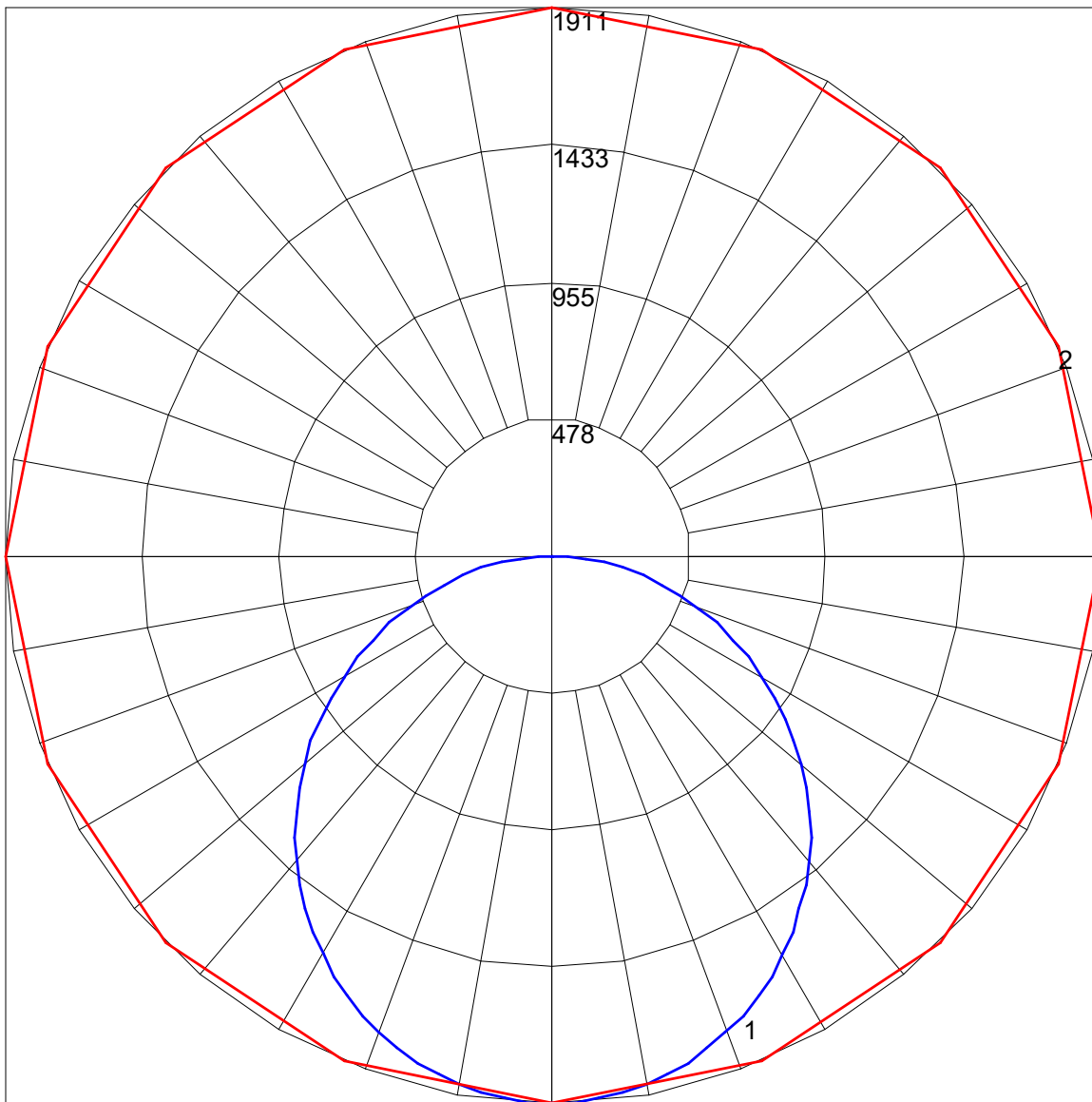
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 1910.911 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.)