



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-20-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	7880
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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	2728	2740	2752
55	2635	2651	2663
65	2498	2528	2539
75	2315	2364	2366
85	2030	2095	2079

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	2712.261	2712.261	2712.261	2712.261	2712.261	2712.261	2712.261	2712.261	2712.261	2712.261
2.5	2709.546	2709.652	2708.856	2708.605	2709.494	2708.605	2708.856	2709.652	2709.546	2709.652
5.0	2699.783	2700.223	2700.130	2699.035	2700.465	2699.035	2700.130	2700.223	2699.783	2700.223
7.5	2684.260	2684.554	2684.634	2684.374	2685.285	2684.374	2684.634	2684.554	2684.260	2684.554
10.0	2662.299	2662.581	2662.862	2662.488	2663.544	2662.488	2662.862	2662.581	2662.299	2662.581
12.5	2634.504	2634.592	2634.808	2635.437	2636.528	2635.437	2634.808	2634.592	2634.504	2634.592
15.0	2601.012	2600.946	2601.953	2602.525	2604.166	2602.525	2601.953	2600.946	2601.012	2600.946
17.5	2561.456	2561.922	2562.894	2563.942	2565.583	2563.942	2562.894	2561.922	2561.456	2561.922
20.0	2516.435	2517.354	2519.136	2519.141	2521.988	2519.141	2519.136	2517.354	2516.435	2517.354
22.5	2466.301	2466.499	2468.039	2469.434	2471.889	2469.434	2468.039	2466.499	2466.301	2466.499
25.0	2410.087	2410.923	2412.705	2414.874	2417.136	2414.874	2412.705	2410.923	2410.087	2410.923
27.5	2349.543	2350.137	2352.060	2354.400	2357.815	2354.400	2352.060	2350.137	2349.543	2350.137
30.0	2281.242	2284.863	2286.592	2288.933	2293.548	2288.933	2286.592	2284.863	2281.242	2284.863
32.5	2209.715	2214.573	2217.024	2219.826	2224.398	2219.826	2217.024	2214.573	2209.715	2214.573
35.0	2135.540	2139.104	2143.222	2146.206	2149.946	2146.206	2143.222	2139.104	2135.540	2139.104
37.5	2058.993	2060.080	2064.326	2067.890	2071.348	2067.890	2064.326	2060.080	2058.993	2060.080
40.0	1978.112	1977.650	1982.644	1986.384	1989.610	1986.384	1982.644	1977.650	1978.112	1977.650
42.5	1891.987	1891.358	1896.193	1900.404	1904.144	1900.404	1896.193	1891.358	1891.987	1891.358
45.0	1799.010	1800.867	1806.455	1810.547	1814.322	1810.547	1806.455	1800.867	1799.010	1800.867
47.5	1703.548	1707.002	1712.612	1718.174	1720.396	1718.174	1712.612	1707.002	1703.548	1707.002
50.0	1607.395	1611.078	1616.353	1622.817	1623.719	1622.817	1616.353	1611.078	1607.395	1611.078
52.5	1509.851	1512.518	1518.040	1524.002	1525.150	1524.002	1518.040	1512.518	1509.851	1512.518
55.0	1409.096	1410.966	1417.825	1423.101	1424.082	1423.101	1417.825	1410.966	1409.096	1410.966
57.5	1304.758	1307.711	1314.918	1320.722	1320.062	1320.722	1314.918	1307.711	1304.758	1307.711
60.0	1198.476	1202.731	1209.243	1216.371	1214.400	1216.371	1209.243	1202.731	1198.476	1202.731
62.5	1091.482	1096.960	1102.842	1109.759	1107.823	1109.759	1102.842	1096.960	1091.482	1096.960
65.0	984.575	991.399	996.103	1001.823	1000.388	1001.823	996.103	991.399	984.575	991.399
67.5	878.539	883.868	889.535	894.912	892.113	894.912	889.535	883.868	878.539	883.868
70.0	771.650	776.508	783.411	787.741	783.829	787.741	783.411	776.508	771.650	776.508
72.5	664.673	670.886	675.831	681.380	677.332	681.380	675.831	670.886	664.673	670.886
75.0	558.637	567.367	570.601	575.784	571.138	575.784	570.601	567.367	558.637	567.367
77.5	456.135	464.156	468.459	470.712	467.025	470.712	468.459	464.156	456.135	464.156
80.0	356.211	362.767	366.331	368.086	363.739	368.086	366.331	362.767	356.211	362.767
82.5	259.398	263.846	266.473	268.202	264.088	268.202	266.473	263.846	259.398	263.846
85.0	164.991	168.727	170.245	172.511	168.982	172.511	170.245	168.727	164.991	168.727
87.5	75.464	78.663	79.187	81.734	78.632	81.734	79.187	78.663	75.464	78.663
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

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	2712.261	2712.261	2712.261	2712.261	2712.261	2712.261	2712.261
2.5	2708.856	2708.605	2709.494	2708.605	2708.856	2709.652	2709.546
5.0	2700.130	2699.035	2700.465	2699.035	2700.130	2700.223	2699.783
7.5	2684.634	2684.374	2685.285	2684.374	2684.634	2684.554	2684.260
10.0	2662.862	2662.488	2663.544	2662.488	2662.862	2662.581	2662.299
12.5	2634.808	2635.437	2636.528	2635.437	2634.808	2634.592	2634.504
15.0	2601.953	2602.525	2604.166	2602.525	2601.953	2600.946	2601.012
17.5	2562.894	2563.942	2565.583	2563.942	2562.894	2561.922	2561.456
20.0	2519.136	2519.141	2521.988	2519.141	2519.136	2517.354	2516.435
22.5	2468.039	2469.434	2471.889	2469.434	2468.039	2466.499	2466.301
25.0	2412.705	2414.874	2417.136	2414.874	2412.705	2410.923	2410.087
27.5	2352.060	2354.400	2357.815	2354.400	2352.060	2350.137	2349.543
30.0	2286.592	2288.933	2293.548	2288.933	2286.592	2284.863	2281.242
32.5	2217.024	2219.826	2224.398	2219.826	2217.024	2214.573	2209.715
35.0	2143.222	2146.206	2149.946	2146.206	2143.222	2139.104	2135.540
37.5	2064.326	2067.890	2071.348	2067.890	2064.326	2060.080	2058.993
40.0	1982.644	1986.384	1989.610	1986.384	1982.644	1977.650	1978.112
42.5	1896.193	1900.404	1904.144	1900.404	1896.193	1891.358	1891.987
45.0	1806.455	1810.547	1814.322	1810.547	1806.455	1800.867	1799.010
47.5	1712.612	1718.174	1720.396	1718.174	1712.612	1707.002	1703.548
50.0	1616.353	1622.817	1623.719	1622.817	1616.353	1611.078	1607.395
52.5	1518.040	1524.002	1525.150	1524.002	1518.040	1512.518	1509.851
55.0	1417.825	1423.101	1424.082	1423.101	1417.825	1410.966	1409.096
57.5	1314.918	1320.722	1320.062	1320.722	1314.918	1307.711	1304.758
60.0	1209.243	1216.371	1214.400	1216.371	1209.243	1202.731	1198.476
62.5	1102.842	1109.759	1107.823	1109.759	1102.842	1096.960	1091.482
65.0	996.103	1001.823	1000.388	1001.823	996.103	991.399	984.575
67.5	889.535	894.912	892.113	894.912	889.535	883.868	878.539
70.0	783.411	787.741	783.829	787.741	783.411	776.508	771.650
72.5	675.831	681.380	677.332	681.380	675.831	670.886	664.673
75.0	570.601	575.784	571.138	575.784	570.601	567.367	558.637
77.5	468.459	470.712	467.025	470.712	468.459	464.156	456.135
80.0	366.331	368.086	363.739	368.086	366.331	362.767	356.211

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CANDELA TABULATION - (Cont.)

82.5	266.473	268.202	264.088	268.202	266.473	263.846	259.398
85.0	170.245	172.511	168.982	172.511	170.245	168.727	164.991
87.5	79.187	81.734	78.632	81.734	79.187	78.663	75.464
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	990.83	N.A.	12.60
0-30	2102.82	N.A.	26.70
0-40	3443.29	N.A.	43.70
0-60	6102.61	N.A.	77.40
0-80	7690.17	N.A.	97.60
0-90	7879.53	N.A.	100.00
10-90	7622.98	N.A.	96.70
20-40	2452.46	N.A.	31.10
20-50	3845.42	N.A.	48.80
40-70	3644.56	N.A.	46.30
60-80	1587.57	N.A.	20.10
70-80	602.32	N.A.	7.60
80-90	189.36	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	7879.53	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	256.54
10-20	734.29
20-30	1111.99
30-40	1340.47
40-50	1392.96
50-60	1266.36
60-70	985.25
70-80	602.32
80-90	189.36
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

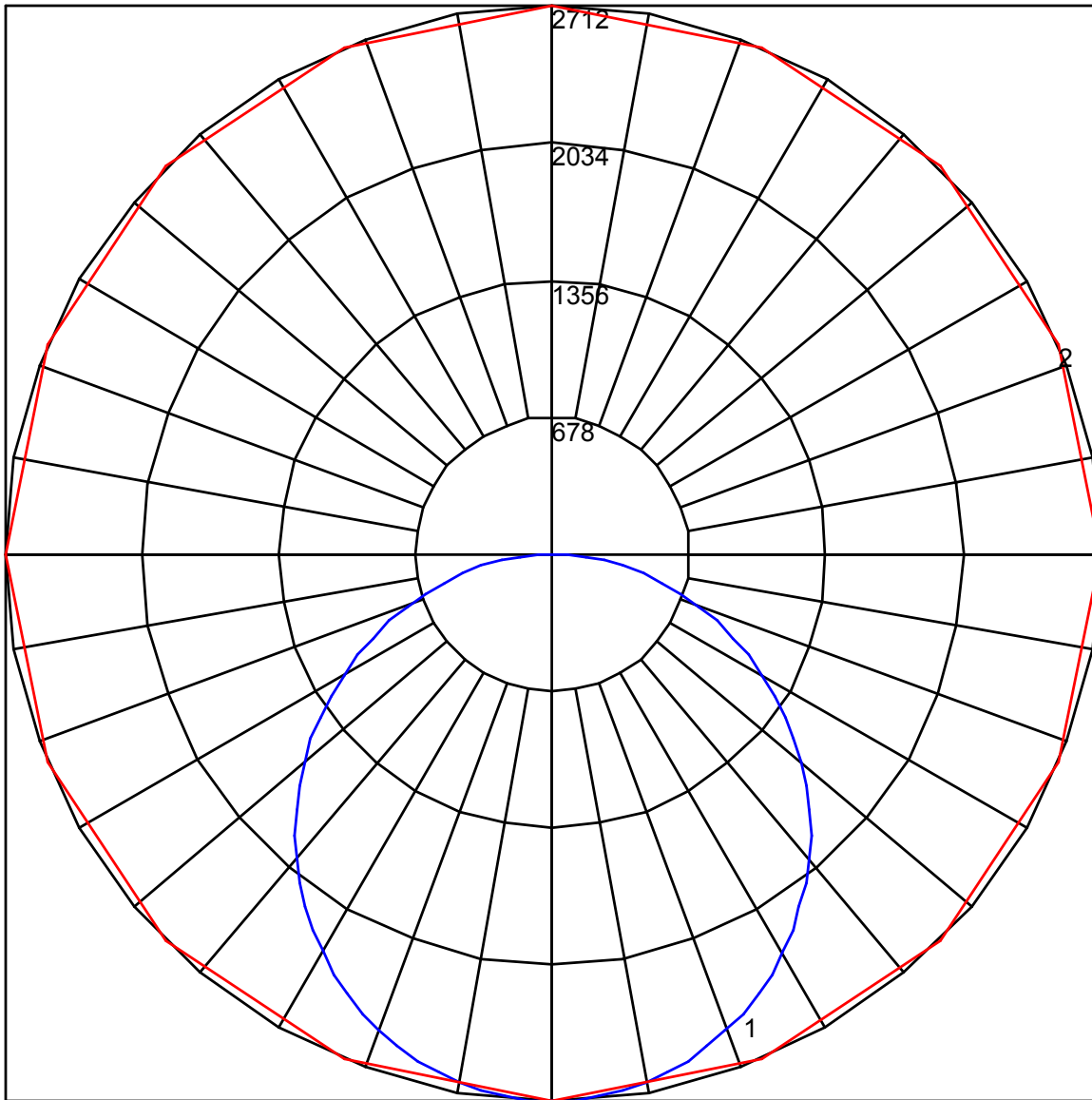
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	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	45	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	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 2712.261 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.)