



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-40-LED35-LO-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Quad-40-LED35-LO-D1
 [TESTLAB] Intertek
 [ISSUE DATE] March 14, 2017
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10562
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	112
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)	3.90 ft
Luminous Width (90-270)	3.90 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2422	2437	2450
55	2342	2353	2368
65	2214	2229	2251
75	2029	2044	2081
85	1715	1748	1816

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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	3644.081	3644.081	3644.081	3644.081	3644.081	3644.081	3644.081	3644.081	3644.081	3644.081
2.5	3638.382	3638.676	3637.834	3637.686	3643.695	3637.686	3637.834	3638.676	3638.382	3638.676
5.0	3637.356	3625.793	3626.727	3628.532	3632.429	3628.532	3626.727	3625.793	3637.356	3625.793
7.5	3608.517	3608.471	3602.224	3602.600	3606.389	3602.600	3602.224	3608.471	3608.517	3608.471
10.0	3578.705	3576.596	3580.028	3575.052	3581.837	3575.052	3580.028	3576.596	3578.705	3576.596
12.5	3540.247	3540.659	3540.765	3542.025	3541.903	3542.025	3540.765	3540.659	3540.247	3540.659
15.0	3498.802	3498.083	3496.604	3499.337	3503.861	3499.337	3496.604	3498.083	3498.802	3498.083
17.5	3445.151	3443.491	3448.899	3447.804	3453.777	3447.804	3448.899	3443.491	3445.151	3443.491
20.0	3385.167	3386.186	3382.213	3388.905	3393.050	3388.905	3382.213	3386.186	3385.167	3386.186
22.5	3320.454	3316.810	3318.596	3320.147	3322.011	3320.147	3318.596	3316.810	3320.454	3316.810
25.0	3243.580	3243.181	3245.078	3249.174	3254.404	3249.174	3245.078	3243.181	3243.580	3243.181
27.5	3165.321	3163.278	3162.238	3170.868	3169.488	3170.868	3162.238	3163.278	3165.321	3163.278
30.0	3071.393	3073.214	3078.597	3081.728	3086.893	3081.728	3078.597	3073.214	3071.393	3073.214
32.5	2973.165	2979.488	2980.220	2984.992	2997.565	2984.992	2980.220	2979.488	2973.165	2979.488
35.0	2875.511	2877.264	2881.808	2889.751	2893.820	2889.751	2881.808	2877.264	2875.511	2877.264
37.5	2774.891	2772.469	2777.326	2786.682	2791.163	2786.682	2777.326	2772.469	2774.891	2772.469
40.0	2655.870	2663.103	2669.248	2675.634	2676.452	2675.634	2669.248	2663.103	2655.870	2663.103
42.5	2538.687	2546.637	2550.375	2557.840	2568.961	2557.840	2550.375	2546.637	2538.687	2546.637
45.0	2417.428	2423.636	2431.661	2438.340	2444.891	2438.340	2431.661	2423.636	2417.428	2423.636
47.5	2298.153	2300.592	2305.512	2312.485	2313.703	2312.485	2305.512	2300.592	2298.153	2300.592
50.0	2163.137	2168.532	2177.096	2183.973	2184.626	2183.973	2177.096	2168.532	2163.137	2168.532
52.5	2029.728	2031.170	2041.948	2047.766	2055.290	2047.766	2041.948	2031.170	2029.728	2031.170
55.0	1895.748	1895.266	1904.819	1911.327	1916.888	1911.327	1904.819	1895.266	1895.748	1895.266
57.5	1751.990	1756.550	1764.329	1768.434	1776.357	1768.434	1764.329	1756.550	1751.990	1756.550
60.0	1607.786	1610.618	1620.538	1627.629	1633.091	1627.629	1620.538	1610.618	1607.786	1610.618
62.5	1462.283	1468.111	1478.453	1484.776	1487.633	1484.776	1478.453	1468.111	1462.283	1468.111
65.0	1320.353	1318.819	1329.765	1339.523	1342.361	1339.523	1329.765	1318.819	1320.353	1318.819
67.5	1173.922	1174.589	1180.410	1191.432	1193.495	1191.432	1180.410	1174.589	1173.922	1174.589
70.0	1025.508	1027.132	1034.821	1043.206	1052.832	1043.206	1034.821	1027.132	1025.508	1027.132
72.5	881.245	884.549	892.320	897.098	903.778	897.098	892.320	884.549	881.245	884.549
75.0	741.292	743.200	746.635	754.637	760.271	754.637	746.635	743.200	741.292	743.200
77.5	603.230	603.554	605.609	615.473	619.258	615.473	605.609	603.554	603.230	603.554
80.0	470.696	471.052	472.580	478.097	484.866	478.097	472.580	471.052	470.696	471.052
82.5	338.382	339.880	342.679	345.777	349.833	345.777	342.679	339.880	338.382	339.880
85.0	210.969	215.566	214.962	220.968	223.370	220.968	214.962	215.566	210.969	215.566
87.5	100.419	102.752	101.703	104.181	105.270	104.181	101.703	102.752	100.419	102.752
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. Angles **Horizontal Angles**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	3644.081	3644.081	3644.081	3644.081	3644.081	3644.081	3644.081
2.5	3637.834	3637.686	3643.695	3637.686	3637.834	3638.676	3638.382
5.0	3626.727	3628.532	3632.429	3628.532	3626.727	3625.793	3637.356
7.5	3602.224	3602.600	3606.389	3602.600	3602.224	3608.471	3608.517
10.0	3580.028	3575.052	3581.837	3575.052	3580.028	3576.596	3578.705
12.5	3540.765	3542.025	3541.903	3542.025	3540.765	3540.659	3540.247
15.0	3496.604	3499.337	3503.861	3499.337	3496.604	3498.083	3498.802
17.5	3448.899	3447.804	3453.777	3447.804	3448.899	3443.491	3445.151
20.0	3382.213	3388.905	3393.050	3388.905	3382.213	3386.186	3385.167
22.5	3318.596	3320.147	3322.011	3320.147	3318.596	3316.810	3320.454
25.0	3245.078	3249.174	3254.404	3249.174	3245.078	3243.181	3243.580
27.5	3162.238	3170.868	3169.488	3170.868	3162.238	3163.278	3165.321
30.0	3078.597	3081.728	3086.893	3081.728	3078.597	3073.214	3071.393
32.5	2980.220	2984.992	2997.565	2984.992	2980.220	2979.488	2973.165
35.0	2881.808	2889.751	2893.820	2889.751	2881.808	2877.264	2875.511
37.5	2777.326	2786.682	2791.163	2786.682	2777.326	2772.469	2774.891
40.0	2669.248	2675.634	2676.452	2675.634	2669.248	2663.103	2655.870
42.5	2550.375	2557.840	2568.961	2557.840	2550.375	2546.637	2538.687
45.0	2431.661	2438.340	2444.891	2438.340	2431.661	2423.636	2417.428
47.5	2305.512	2312.485	2313.703	2312.485	2305.512	2300.592	2298.153
50.0	2177.096	2183.973	2184.626	2183.973	2177.096	2168.532	2163.137
52.5	2041.948	2047.766	2055.290	2047.766	2041.948	2031.170	2029.728
55.0	1904.819	1911.327	1916.888	1911.327	1904.819	1895.266	1895.748
57.5	1764.329	1768.434	1776.357	1768.434	1764.329	1756.550	1751.990
60.0	1620.538	1627.629	1633.091	1627.629	1620.538	1610.618	1607.786
62.5	1478.453	1484.776	1487.633	1484.776	1478.453	1468.111	1462.283
65.0	1329.765	1339.523	1342.361	1339.523	1329.765	1318.819	1320.353
67.5	1180.410	1191.432	1193.495	1191.432	1180.410	1174.589	1173.922
70.0	1034.821	1043.206	1052.832	1043.206	1034.821	1027.132	1025.508
72.5	892.320	897.098	903.778	897.098	892.320	884.549	881.245
75.0	746.635	754.637	760.271	754.637	746.635	743.200	741.292
77.5	605.609	615.473	619.258	615.473	605.609	603.554	603.230
80.0	472.580	478.097	484.866	478.097	472.580	471.052	470.696

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82.5	342.679	345.777	349.833	345.777	342.679	339.880	338.382
85.0	214.962	220.968	223.370	220.968	214.962	215.566	210.969
87.5	101.703	104.181	105.270	104.181	101.703	102.752	100.419
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	1331.9	N.A.	12.60
0-30	2827.9	N.A.	26.80
0-40	4631.98	N.A.	43.90
0-60	8208.38	N.A.	77.70
0-80	10316.64	N.A.	97.70
0-90	10561.67	N.A.	100.00
10-90	10217.01	N.A.	96.70
20-40	3300.08	N.A.	31.20
20-50	5175.17	N.A.	49.00
40-70	4892.12	N.A.	46.30
60-80	2108.27	N.A.	20.00
70-80	792.55	N.A.	7.50
80-90	245.02	N.A.	2.30
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	10561.67	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	344.66
10-20	987.25
20-30	1496.00
30-40	1804.08
40-50	1875.09
50-60	1701.3
60-70	1315.72
70-80	792.55
80-90	245.02
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

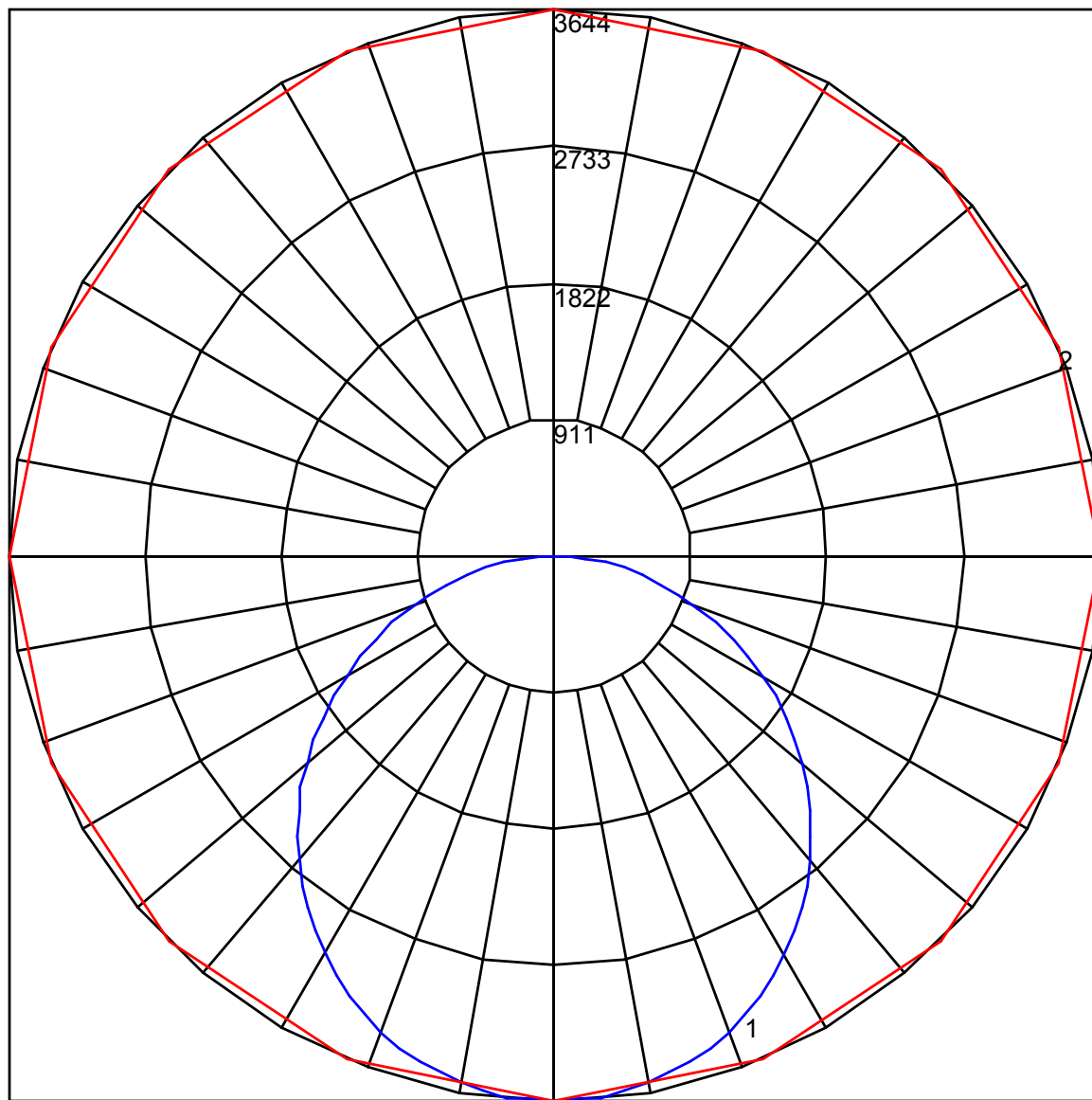
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	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	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 3644.081 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.)