



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QDF-44-LED35-HO-FWA-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] QDF-44-LED35-HO-FWA-D1
 [TESTLAB] Intertek
 [ISSUE DATE] March 28, 2017
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10309
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	176
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.19 ft
Luminous Width (90-270)	3.19 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3561	3530	3538
55	3459	3416	3427
65	3308	3253	3267
75	3096	3021	3061
85	2854	2736	2782

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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	3535.167	3535.167	3535.167	3535.167	3535.167	3535.167	3535.167	3535.167	3535.167	3535.167
2.5	3543.123	3528.928	3530.118	3527.432	3539.383	3527.432	3530.118	3528.928	3543.123	3528.928
5.0	3531.801	3517.385	3517.623	3515.345	3527.755	3515.345	3517.623	3517.385	3531.801	3517.385
7.5	3514.818	3500.657	3496.900	3495.302	3510.160	3495.302	3496.900	3500.657	3514.818	3500.657
10.0	3485.629	3472.063	3471.366	3468.663	3479.645	3468.663	3471.366	3472.063	3485.629	3472.063
12.5	3450.218	3436.771	3434.629	3434.459	3444.047	3434.459	3434.629	3436.771	3450.218	3436.771
15.0	3408.126	3392.384	3390.684	3389.001	3401.309	3389.001	3390.684	3392.384	3408.126	3392.384
17.5	3357.993	3342.812	3342.013	3337.032	3348.711	3337.032	3342.013	3342.812	3357.993	3342.812
20.0	3301.842	3285.896	3283.057	3281.969	3291.013	3281.969	3283.057	3285.896	3301.842	3285.896
22.5	3237.854	3223.574	3219.154	3215.788	3226.005	3215.788	3219.154	3223.574	3237.854	3223.574
25.0	3166.199	3151.188	3147.499	3144.405	3153.160	3144.405	3147.499	3151.188	3166.199	3151.188
27.5	3088.509	3076.116	3070.064	3066.392	3076.371	3066.392	3070.064	3076.116	3088.509	3076.116
30.0	3001.061	2991.966	2983.194	2981.035	2990.623	2981.035	2983.194	2991.966	3001.061	2991.966
32.5	2911.131	2902.036	2894.182	2890.493	2900.778	2890.493	2894.182	2902.036	2911.131	2902.036
35.0	2817.886	2805.714	2797.877	2795.531	2802.348	2795.531	2797.877	2805.714	2817.886	2805.714
37.5	2718.674	2704.360	2695.554	2693.922	2698.920	2693.922	2695.554	2704.360	2718.674	2704.360
40.0	2610.095	2598.110	2587.927	2585.853	2593.605	2585.853	2587.927	2598.110	2610.095	2598.110
42.5	2496.263	2487.287	2474.095	2473.245	2482.323	2473.245	2474.095	2487.287	2496.263	2487.287
45.0	2378.793	2368.780	2358.342	2355.622	2363.918	2355.622	2358.342	2368.780	2378.793	2368.780
47.5	2258.756	2248.675	2239.138	2234.956	2244.289	2234.956	2239.138	2248.675	2258.756	2248.675
50.0	2135.659	2123.300	2112.896	2108.986	2116.415	2108.986	2112.896	2123.300	2135.659	2123.300
52.5	2008.873	1995.086	1985.056	1981.350	1989.051	1981.350	1985.056	1995.086	2008.873	1995.086
55.0	1874.675	1863.047	1851.198	1847.356	1857.029	1847.356	1851.198	1863.047	1874.675	1863.047
57.5	1737.927	1729.155	1714.246	1712.971	1723.630	1712.971	1714.246	1729.155	1737.927	1729.155
60.0	1599.513	1590.571	1578.008	1576.716	1584.230	1576.716	1578.008	1590.571	1599.513	1590.571
62.5	1461.575	1449.845	1437.894	1437.316	1443.708	1437.316	1437.894	1449.845	1461.575	1449.845
65.0	1320.730	1307.317	1298.698	1294.261	1304.342	1294.261	1298.698	1307.317	1320.730	1307.317
67.5	1180.684	1166.574	1157.649	1153.841	1165.605	1153.841	1157.649	1166.574	1180.684	1166.574
70.0	1035.708	1025.389	1015.529	1013.438	1024.386	1013.438	1015.529	1025.389	1035.708	1025.389
72.5	895.373	885.360	875.228	872.627	885.989	872.627	875.228	885.360	895.373	885.360
75.0	757.163	745.110	738.803	736.610	748.476	736.610	738.803	745.110	757.163	745.110
77.5	621.860	610.538	603.279	603.126	612.102	603.126	603.279	610.538	621.860	610.538
80.0	487.016	477.581	472.260	471.444	481.117	471.444	472.260	477.581	487.016	477.581
82.5	356.558	349.673	346.851	345.712	354.042	345.712	346.851	349.673	356.558	349.673
85.0	234.974	228.106	225.318	225.250	229.092	225.250	225.318	228.106	234.974	228.106
87.5	113.339	108.239	108.783	109.089	112.523	109.089	108.783	108.239	113.339	108.239
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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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	3535.167	3535.167	3535.167	3535.167	3535.167	3535.167	3535.167
2.5	3530.118	3527.432	3539.383	3527.432	3530.118	3528.928	3543.123
5.0	3517.623	3515.345	3527.755	3515.345	3517.623	3517.385	3531.801
7.5	3496.900	3495.302	3510.160	3495.302	3496.900	3500.657	3514.818
10.0	3471.366	3468.663	3479.645	3468.663	3471.366	3472.063	3485.629
12.5	3434.629	3434.459	3444.047	3434.459	3434.629	3436.771	3450.218
15.0	3390.684	3389.001	3401.309	3389.001	3390.684	3392.384	3408.126
17.5	3342.013	3337.032	3348.711	3337.032	3342.013	3342.812	3357.993
20.0	3283.057	3281.969	3291.013	3281.969	3283.057	3285.896	3301.842
22.5	3219.154	3215.788	3226.005	3215.788	3219.154	3223.574	3237.854
25.0	3147.499	3144.405	3153.160	3144.405	3147.499	3151.188	3166.199
27.5	3070.064	3066.392	3076.371	3066.392	3070.064	3076.116	3088.509
30.0	2983.194	2981.035	2990.623	2981.035	2983.194	2991.966	3001.061
32.5	2894.182	2890.493	2900.778	2890.493	2894.182	2902.036	2911.131
35.0	2797.877	2795.531	2802.348	2795.531	2797.877	2805.714	2817.886
37.5	2695.554	2693.922	2698.920	2693.922	2695.554	2704.360	2718.674
40.0	2587.927	2585.853	2593.605	2585.853	2587.927	2598.110	2610.095
42.5	2474.095	2473.245	2482.323	2473.245	2474.095	2487.287	2496.263
45.0	2358.342	2355.622	2363.918	2355.622	2358.342	2368.780	2378.793
47.5	2239.138	2234.956	2244.289	2234.956	2239.138	2248.675	2258.756
50.0	2112.896	2108.986	2116.415	2108.986	2112.896	2123.300	2135.659
52.5	1985.056	1981.350	1989.051	1981.350	1985.056	1995.086	2008.873
55.0	1851.198	1847.356	1857.029	1847.356	1851.198	1863.047	1874.675
57.5	1714.246	1712.971	1723.630	1712.971	1714.246	1729.155	1737.927
60.0	1578.008	1576.716	1584.230	1576.716	1578.008	1590.571	1599.513
62.5	1437.894	1437.316	1443.708	1437.316	1437.894	1449.845	1461.575
65.0	1298.698	1294.261	1304.342	1294.261	1298.698	1307.317	1320.730
67.5	1157.649	1153.841	1165.605	1153.841	1157.649	1166.574	1180.684
70.0	1015.529	1013.438	1024.386	1013.438	1015.529	1025.389	1035.708
72.5	875.228	872.627	885.989	872.627	875.228	885.360	895.373
75.0	738.803	736.610	748.476	736.610	738.803	745.110	757.163
77.5	603.279	603.126	612.102	603.126	603.279	610.538	621.860
80.0	472.260	471.444	481.117	471.444	472.260	477.581	487.016

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CANDELA TABULATION - (Cont.)

82.5	346.851	345.712	354.042	345.712	346.851	349.673	356.558
85.0	225.318	225.250	229.092	225.250	225.318	228.106	234.974
87.5	108.783	109.089	112.523	109.089	108.783	108.239	113.339
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	1292.56	N.A.	12.50
0-30	2744.75	N.A.	26.60
0-40	4497.59	N.A.	43.60
0-60	7980.59	N.A.	77.40
0-80	10057.13	N.A.	97.60
0-90	10308.81	N.A.	100.00
10-90	9974.25	N.A.	96.80
20-40	3205.04	N.A.	31.10
20-50	5028.42	N.A.	48.80
40-70	4773.1	N.A.	46.30
60-80	2076.54	N.A.	20.10
70-80	786.44	N.A.	7.60
80-90	251.68	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	10308.81	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	334.56
10-20	958.00
20-30	1452.19
30-40	1752.85
40-50	1823.39
50-60	1659.61
60-70	1290.1
70-80	786.44
80-90	251.68
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

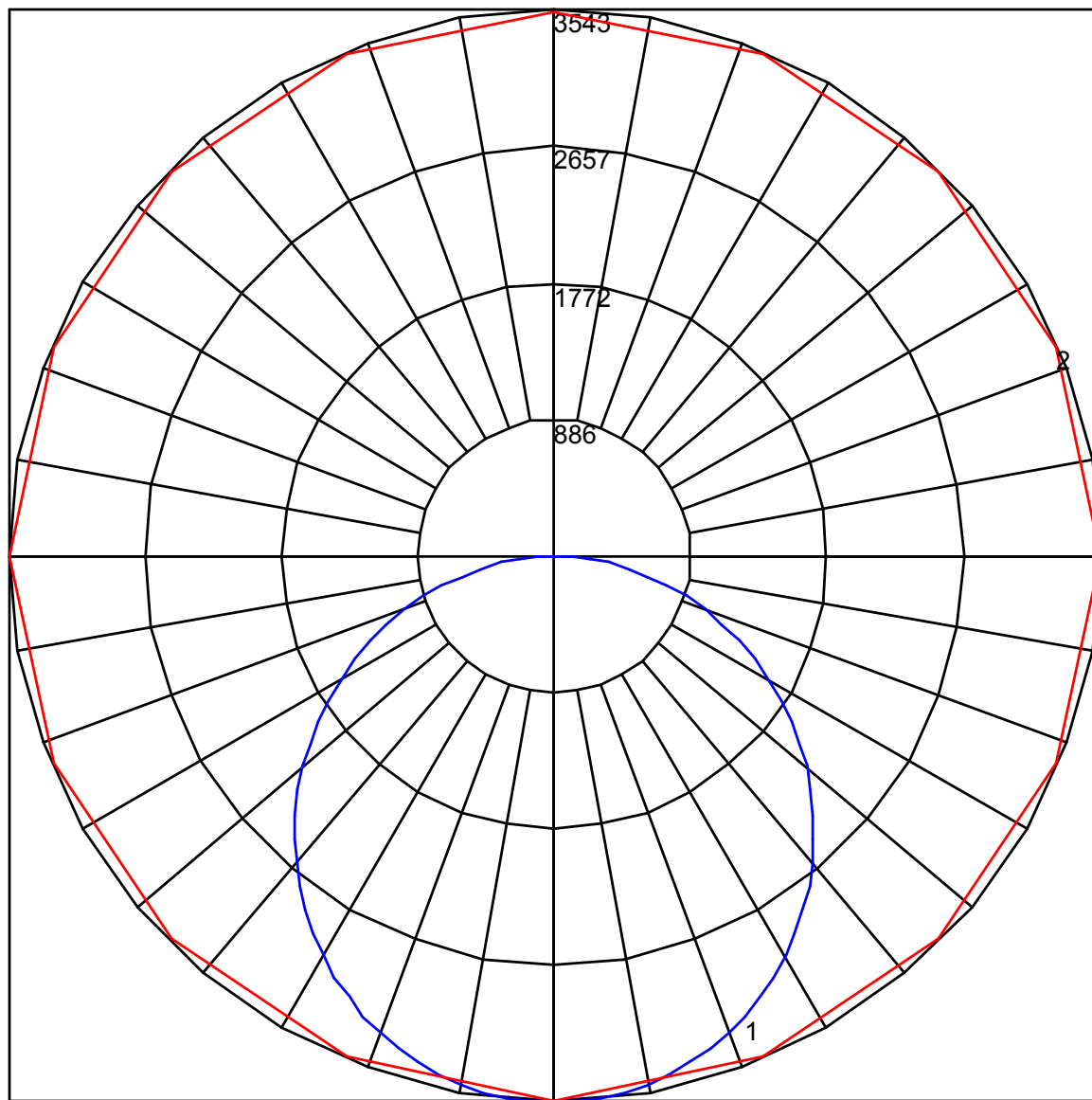
IES INDOOR REPORT
PHOTOMETRIC FILENAME : QDF-44-LED35-HO-FWA-D1.IES

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	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	79	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	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 3543.123 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)