



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] QDF-44-LED35-SO-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	8338
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	136
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	2880	2855	2862
55	2798	2763	2772
65	2675	2631	2642
75	2504	2444	2476
85	2308	2213	2250

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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	2859.326	2859.326	2859.326	2859.326	2859.326	2859.326	2859.326	2859.326	2859.326	2859.326
2.5	2865.761	2854.280	2855.242	2853.070	2862.736	2853.070	2855.242	2854.280	2865.761	2854.280
5.0	2856.604	2844.944	2845.136	2843.294	2853.331	2843.294	2845.136	2844.944	2856.604	2844.944
7.5	2842.867	2831.414	2828.375	2827.082	2839.100	2827.082	2828.375	2831.414	2842.867	2831.414
10.0	2819.259	2808.286	2807.722	2805.536	2814.419	2805.536	2807.722	2808.286	2819.259	2808.286
12.5	2790.617	2779.741	2778.009	2777.871	2785.626	2777.871	2778.009	2779.741	2790.617	2779.741
15.0	2756.573	2743.840	2742.465	2741.104	2751.059	2741.104	2742.465	2743.840	2756.573	2743.840
17.5	2716.024	2703.745	2703.099	2699.070	2708.516	2699.070	2703.099	2703.745	2716.024	2703.745
20.0	2670.608	2657.710	2655.414	2654.534	2661.849	2654.534	2655.414	2657.710	2670.608	2657.710
22.5	2618.852	2607.302	2603.727	2601.005	2609.269	2601.005	2603.727	2607.302	2618.852	2607.302
25.0	2560.896	2548.755	2545.771	2543.269	2550.350	2543.269	2545.771	2548.755	2560.896	2548.755
27.5	2498.059	2488.035	2483.140	2480.170	2488.241	2480.170	2483.140	2488.035	2498.059	2488.035
30.0	2427.329	2419.972	2412.878	2411.131	2418.886	2411.131	2412.878	2419.972	2427.329	2419.972
32.5	2354.591	2347.235	2340.883	2337.899	2346.218	2337.899	2340.883	2347.235	2354.591	2347.235
35.0	2279.173	2269.327	2262.989	2261.091	2266.605	2261.091	2262.989	2269.327	2279.173	2269.327
37.5	2198.927	2187.350	2180.227	2178.907	2182.950	2178.907	2180.227	2187.350	2198.927	2187.350
40.0	2111.106	2101.412	2093.176	2091.499	2097.769	2091.499	2093.176	2101.412	2111.106	2101.412
42.5	2019.036	2011.776	2001.106	2000.419	2007.761	2000.419	2001.106	2011.776	2019.036	2011.776
45.0	1924.024	1915.925	1907.483	1905.283	1911.993	1905.283	1907.483	1915.925	1924.024	1915.925
47.5	1826.935	1818.781	1811.068	1807.685	1815.234	1807.685	1811.068	1818.781	1826.935	1818.781
50.0	1727.371	1717.375	1708.960	1705.797	1711.806	1705.797	1708.960	1717.375	1727.371	1717.375
52.5	1624.824	1613.672	1605.560	1602.563	1608.791	1602.563	1605.560	1613.672	1624.824	1613.672
55.0	1516.281	1506.876	1497.293	1494.185	1502.009	1494.185	1497.293	1506.876	1516.281	1506.876
57.5	1405.676	1398.581	1386.523	1385.491	1394.112	1385.491	1386.523	1398.581	1405.676	1398.581
60.0	1293.724	1286.491	1276.330	1275.285	1281.362	1275.285	1276.330	1286.491	1293.724	1286.491
62.5	1182.156	1172.669	1163.003	1162.535	1167.705	1162.535	1163.003	1172.669	1182.156	1172.669
65.0	1068.237	1057.389	1050.418	1046.829	1054.983	1046.829	1050.418	1057.389	1068.237	1057.389
67.5	954.965	943.553	936.334	933.254	942.769	933.254	936.334	943.553	954.965	943.553
70.0	837.705	829.359	821.384	819.692	828.548	819.692	821.384	829.359	837.705	829.359
72.5	724.199	716.100	707.905	705.801	716.609	705.801	707.905	716.100	724.199	716.100
75.0	612.411	602.663	597.561	595.788	605.385	595.788	597.561	602.663	612.411	602.663
77.5	502.975	493.817	487.946	487.822	495.082	487.822	487.946	493.817	502.975	493.817
80.0	393.910	386.279	381.975	381.315	389.139	381.315	381.975	386.279	393.910	386.279
82.5	288.392	282.824	280.541	279.620	286.358	279.620	280.541	282.824	288.392	282.824
85.0	190.053	184.498	182.243	182.188	185.295	182.188	182.243	184.498	190.053	184.498
87.5	91.671	87.546	87.986	88.234	91.011	88.234	87.986	87.546	91.671	87.546
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. Horizontal Angles

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	2859.326	2859.326	2859.326	2859.326	2859.326	2859.326	2859.326
2.5	2855.242	2853.070	2862.736	2853.070	2855.242	2854.280	2865.761
5.0	2845.136	2843.294	2853.331	2843.294	2845.136	2844.944	2856.604
7.5	2828.375	2827.082	2839.100	2827.082	2828.375	2831.414	2842.867
10.0	2807.722	2805.536	2814.419	2805.536	2807.722	2808.286	2819.259
12.5	2778.009	2777.871	2785.626	2777.871	2778.009	2779.741	2790.617
15.0	2742.465	2741.104	2751.059	2741.104	2742.465	2743.840	2756.573
17.5	2703.099	2699.070	2708.516	2699.070	2703.099	2703.745	2716.024
20.0	2655.414	2654.534	2661.849	2654.534	2655.414	2657.710	2670.608
22.5	2603.727	2601.005	2609.269	2601.005	2603.727	2607.302	2618.852
25.0	2545.771	2543.269	2550.350	2543.269	2545.771	2548.755	2560.896
27.5	2483.140	2480.170	2488.241	2480.170	2483.140	2488.035	2498.059
30.0	2412.878	2411.131	2418.886	2411.131	2412.878	2419.972	2427.329
32.5	2340.883	2337.899	2346.218	2337.899	2340.883	2347.235	2354.591
35.0	2262.989	2261.091	2266.605	2261.091	2262.989	2269.327	2279.173
37.5	2180.227	2178.907	2182.950	2178.907	2180.227	2187.350	2198.927
40.0	2093.176	2091.499	2097.769	2091.499	2093.176	2101.412	2111.106
42.5	2001.106	2000.419	2007.761	2000.419	2001.106	2011.776	2019.036
45.0	1907.483	1905.283	1911.993	1905.283	1907.483	1915.925	1924.024
47.5	1811.068	1807.685	1815.234	1807.685	1811.068	1818.781	1826.935
50.0	1708.960	1705.797	1711.806	1705.797	1708.960	1717.375	1727.371
52.5	1605.560	1602.563	1608.791	1602.563	1605.560	1613.672	1624.824
55.0	1497.293	1494.185	1502.009	1494.185	1497.293	1506.876	1516.281
57.5	1386.523	1385.491	1394.112	1385.491	1386.523	1398.581	1405.676
60.0	1276.330	1275.285	1281.362	1275.285	1276.330	1286.491	1293.724
62.5	1163.003	1162.535	1167.705	1162.535	1163.003	1172.669	1182.156
65.0	1050.418	1046.829	1054.983	1046.829	1050.418	1057.389	1068.237
67.5	936.334	933.254	942.769	933.254	936.334	943.553	954.965
70.0	821.384	819.692	828.548	819.692	821.384	829.359	837.705
72.5	707.905	705.801	716.609	705.801	707.905	716.100	724.199
75.0	597.561	595.788	605.385	595.788	597.561	602.663	612.411
77.5	487.946	487.822	495.082	487.822	487.946	493.817	502.975
80.0	381.975	381.315	389.139	381.315	381.975	386.279	393.910

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CANDELA TABULATION - (Cont.)

82.5	280.541	279.620	286.358	279.620	280.541	282.824	288.392
85.0	182.243	182.188	185.295	182.188	182.243	184.498	190.053
87.5	87.986	88.234	91.011	88.234	87.986	87.546	91.671
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	1045.45	N.A.	12.50
0-30	2220.01	N.A.	26.60
0-40	3637.76	N.A.	43.60
0-60	6454.89	N.A.	77.40
0-80	8134.45	N.A.	97.60
0-90	8338.01	N.A.	100.00
10-90	8067.41	N.A.	96.80
20-40	2592.31	N.A.	31.10
20-50	4067.11	N.A.	48.80
40-70	3860.59	N.A.	46.30
60-80	1679.55	N.A.	20.10
70-80	636.09	N.A.	7.60
80-90	203.57	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	8338.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	270.60
10-20	774.85
20-30	1174.56
30-40	1417.74
40-50	1474.8
50-60	1342.33
60-70	1043.47
70-80	636.09
80-90	203.57
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

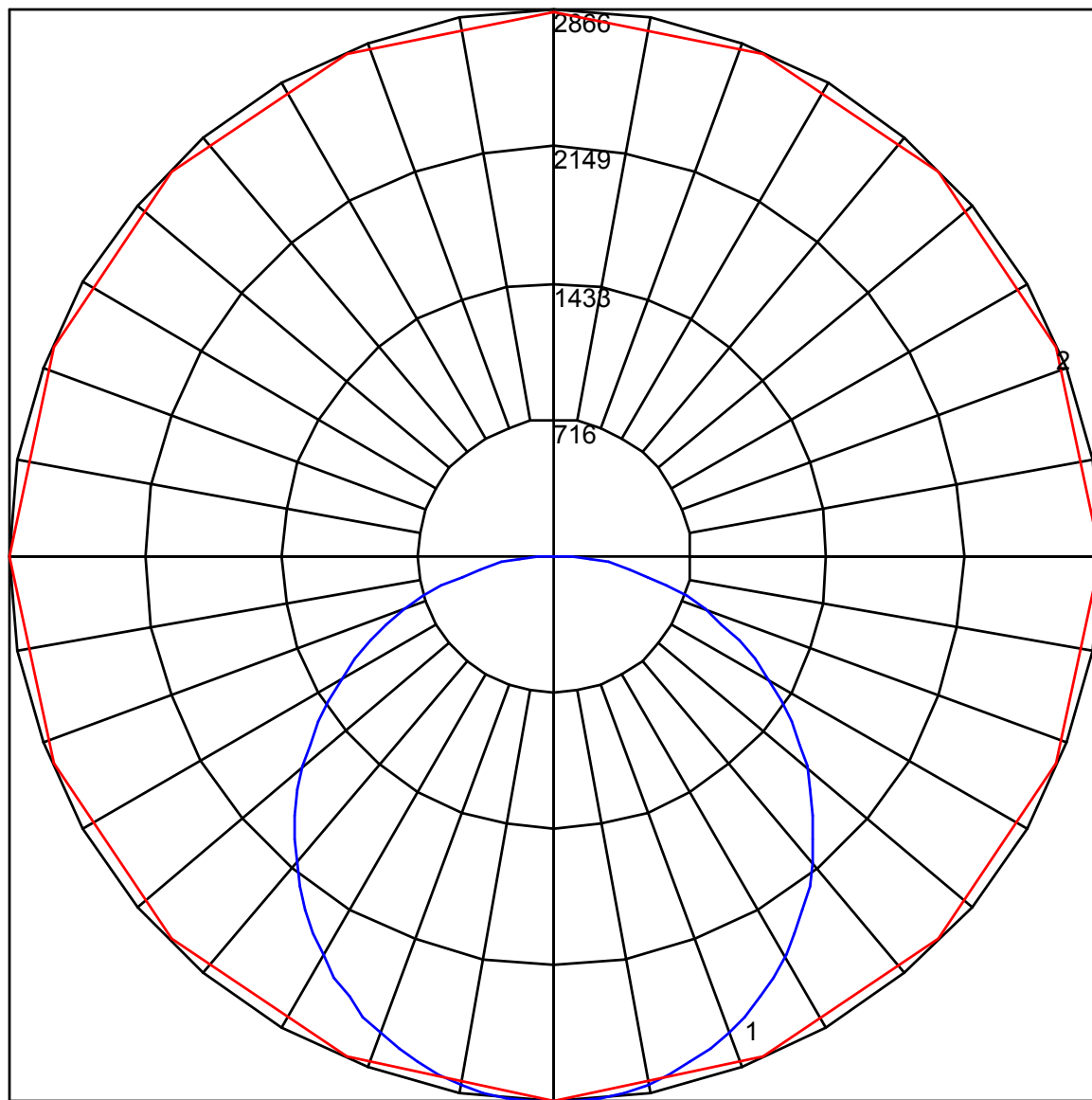
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 2865.761 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.)