



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] QDF-44-LED35-LO-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	4063
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	61
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	1403	1391	1395
55	1363	1346	1351
65	1304	1282	1287
75	1220	1191	1206
85	1125	1078	1096

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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	1393.272	1393.272	1393.272	1393.272	1393.272	1393.272	1393.272	1393.272	1393.272	1393.272
2.5	1396.407	1390.813	1391.282	1390.223	1394.933	1390.223	1391.282	1390.813	1396.407	1390.813
5.0	1391.945	1386.264	1386.357	1385.460	1390.351	1385.460	1386.357	1386.264	1391.945	1386.264
7.5	1385.252	1379.671	1378.190	1377.560	1383.416	1377.560	1378.190	1379.671	1385.252	1379.671
10.0	1373.748	1368.401	1368.127	1367.061	1371.390	1367.061	1368.127	1368.401	1373.748	1368.401
12.5	1359.792	1354.492	1353.648	1353.581	1357.360	1353.581	1353.648	1354.492	1359.792	1354.492
15.0	1343.203	1336.998	1336.328	1335.665	1340.516	1335.665	1336.328	1336.998	1343.203	1336.998
17.5	1323.444	1317.461	1317.146	1315.183	1319.786	1315.183	1317.146	1317.461	1323.444	1317.461
20.0	1301.314	1295.030	1293.911	1293.482	1297.046	1293.482	1293.911	1295.030	1301.314	1295.030
22.5	1276.095	1270.467	1268.725	1267.399	1271.426	1267.399	1268.725	1270.467	1276.095	1270.467
25.0	1247.855	1241.939	1240.485	1239.266	1242.716	1239.266	1240.485	1241.939	1247.855	1241.939
27.5	1217.236	1212.352	1209.966	1208.519	1212.452	1208.519	1209.966	1212.352	1217.236	1212.352
30.0	1182.771	1179.187	1175.729	1174.879	1178.657	1174.879	1175.729	1179.187	1182.771	1179.187
32.5	1147.328	1143.744	1140.648	1139.194	1143.248	1139.194	1140.648	1143.744	1147.328	1143.744
35.0	1110.579	1105.781	1102.693	1101.768	1104.455	1101.768	1102.693	1105.781	1110.579	1105.781
37.5	1071.477	1065.836	1062.365	1061.722	1063.692	1061.722	1062.365	1065.836	1071.477	1065.836
40.0	1028.685	1023.961	1019.948	1019.130	1022.186	1019.130	1019.948	1023.961	1028.685	1023.961
42.5	983.821	980.284	975.085	974.750	978.327	974.750	975.085	980.284	983.821	980.284
45.0	937.524	933.578	929.464	928.392	931.662	928.392	929.464	933.578	937.524	933.578
47.5	890.216	886.243	882.484	880.836	884.514	880.836	882.484	886.243	890.216	886.243
50.0	841.701	836.830	832.730	831.189	834.117	831.189	832.730	836.830	841.701	836.830
52.5	791.732	786.299	782.346	780.885	783.920	780.885	782.346	786.299	791.732	786.299
55.0	738.843	734.260	729.590	728.076	731.888	728.076	729.590	734.260	738.843	734.260
57.5	684.948	681.491	675.615	675.112	679.313	675.112	675.615	681.491	684.948	681.491
60.0	630.396	626.872	621.921	621.412	624.373	621.412	621.921	626.872	630.396	626.872
62.5	576.033	571.410	566.699	566.472	568.991	566.472	566.699	571.410	576.033	571.410
65.0	520.523	515.237	511.840	510.091	514.064	510.091	511.840	515.237	520.523	515.237
67.5	465.328	459.767	456.250	454.749	459.386	454.749	456.250	459.767	465.328	459.767
70.0	408.191	404.124	400.238	399.414	403.729	399.414	400.238	404.124	408.191	404.124
72.5	352.882	348.936	344.943	343.918	349.184	343.918	344.943	348.936	352.882	348.936
75.0	298.411	293.661	291.175	290.311	294.988	290.311	291.175	293.661	298.411	293.661
77.5	245.086	240.624	237.763	237.703	241.240	237.703	237.763	240.624	245.086	240.624
80.0	191.942	188.223	186.126	185.804	189.617	185.804	186.126	188.223	191.942	188.223
82.5	140.526	137.812	136.700	136.251	139.534	136.251	136.700	137.812	140.526	137.812
85.0	92.607	89.901	88.802	88.775	90.289	88.775	88.802	89.901	92.607	89.901
87.5	44.669	42.659	42.873	42.994	44.347	42.994	42.873	42.659	44.669	42.659
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	1393.272	1393.272	1393.272	1393.272	1393.272	1393.272	1393.272
2.5	1391.282	1390.223	1394.933	1390.223	1391.282	1390.813	1396.407
5.0	1386.357	1385.460	1390.351	1385.460	1386.357	1386.264	1391.945
7.5	1378.190	1377.560	1383.416	1377.560	1378.190	1379.671	1385.252
10.0	1368.127	1367.061	1371.390	1367.061	1368.127	1368.401	1373.748
12.5	1353.648	1353.581	1357.360	1353.581	1353.648	1354.492	1359.792
15.0	1336.328	1335.665	1340.516	1335.665	1336.328	1336.998	1343.203
17.5	1317.146	1315.183	1319.786	1315.183	1317.146	1317.461	1323.444
20.0	1293.911	1293.482	1297.046	1293.482	1293.911	1295.030	1301.314
22.5	1268.725	1267.399	1271.426	1267.399	1268.725	1270.467	1276.095
25.0	1240.485	1239.266	1242.716	1239.266	1240.485	1241.939	1247.855
27.5	1209.966	1208.519	1212.452	1208.519	1209.966	1212.352	1217.236
30.0	1175.729	1174.879	1178.657	1174.879	1175.729	1179.187	1182.771
32.5	1140.648	1139.194	1143.248	1139.194	1140.648	1143.744	1147.328
35.0	1102.693	1101.768	1104.455	1101.768	1102.693	1105.781	1110.579
37.5	1062.365	1061.722	1063.692	1061.722	1062.365	1065.836	1071.477
40.0	1019.948	1019.130	1022.186	1019.130	1019.948	1023.961	1028.685
42.5	975.085	974.750	978.327	974.750	975.085	980.284	983.821
45.0	929.464	928.392	931.662	928.392	929.464	933.578	937.524
47.5	882.484	880.836	884.514	880.836	882.484	886.243	890.216
50.0	832.730	831.189	834.117	831.189	832.730	836.830	841.701
52.5	782.346	780.885	783.920	780.885	782.346	786.299	791.732
55.0	729.590	728.076	731.888	728.076	729.590	734.260	738.843
57.5	675.615	675.112	679.313	675.112	675.615	681.491	684.948
60.0	621.921	621.412	624.373	621.412	621.921	626.872	630.396
62.5	566.699	566.472	568.991	566.472	566.699	571.410	576.033
65.0	511.840	510.091	514.064	510.091	511.840	515.237	520.523
67.5	456.250	454.749	459.386	454.749	456.250	459.767	465.328
70.0	400.238	399.414	403.729	399.414	400.238	404.124	408.191
72.5	344.943	343.918	349.184	343.918	344.943	348.936	352.882
75.0	291.175	290.311	294.988	290.311	291.175	293.661	298.411
77.5	237.763	237.703	241.240	237.703	237.763	240.624	245.086
80.0	186.126	185.804	189.617	185.804	186.126	188.223	191.942

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CANDELA TABULATION - (Cont.)

82.5	136.700	136.251	139.534	136.251	136.700	137.812	140.526
85.0	88.802	88.775	90.289	88.775	88.802	89.901	92.607
87.5	42.873	42.994	44.347	42.994	42.873	42.659	44.669
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	509.42	N.A.	12.50
0-30	1081.75	N.A.	26.60
0-40	1772.58	N.A.	43.60
0-60	3145.29	N.A.	77.40
0-80	3963.69	N.A.	97.60
0-90	4062.88	N.A.	100.00
10-90	3931.03	N.A.	96.80
20-40	1263.16	N.A.	31.10
20-50	1981.79	N.A.	48.80
40-70	1881.16	N.A.	46.30
60-80	818.40	N.A.	20.10
70-80	309.95	N.A.	7.60
80-90	99.19	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	4062.88	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.86
10-20	377.56
20-30	572.33
30-40	690.83
40-50	718.63
50-60	654.08
60-70	508.45
70-80	309.95
80-90	99.19
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

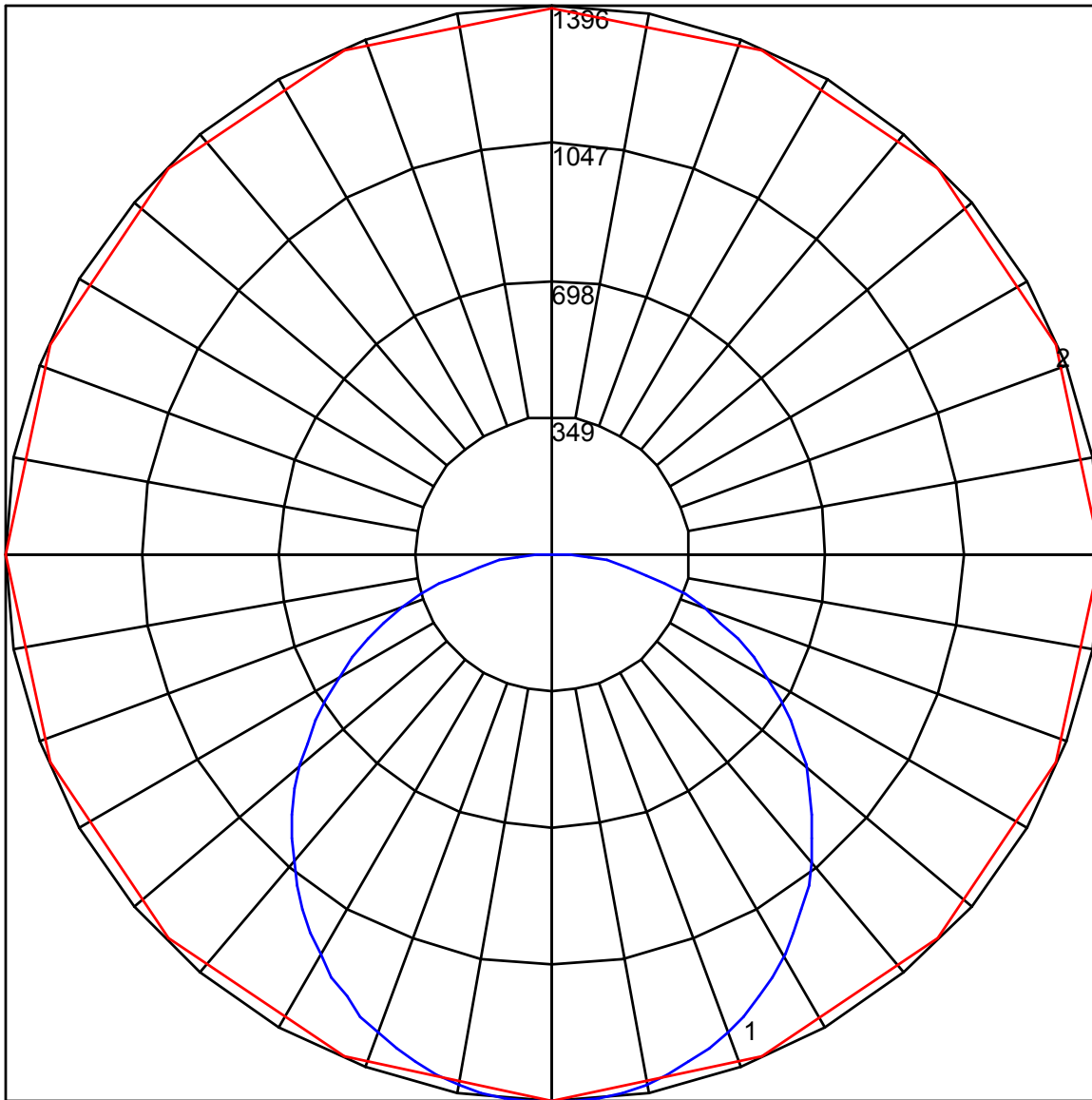
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PHOTOMETRIC FILENAME : QDF-44-LED35-LO-FWA-D1.IES

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 = 1396.407 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.)