



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QDF-33-LED35-MO-FWA-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 IESNA:LM-63-2002[TESTLAB] Intertek
 [ISSUEDATE] August 3, 2017
 [MANUFAC] Prudential Lighting
 [LAMPCAT] QDF-33-LED35-MO-FWA-D9
 [LUMINAIRE] 3' x 3' x 5"H. LED FIXTURE
 [MORE] FLAT WHITE ACRYLIC LENS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4662
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	72
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.00 ft
Luminous Width (90-270)	3.00 ft
Luminous Height	0.42 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1127	1068	1119
55	1028	956	1020
65	900	810	892
75	699	602	688
85	322	252	310

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QDF-33-LED35-MO-FWA-D9.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1154.525	1154.525	1154.525	1154.525	1154.525	1154.525	1154.525	1154.525	1154.525	1154.525
2.5	1151.682	1152.835	1153.891	1152.985	1152.360	1152.985	1153.891	1152.835	1151.682	1152.835
5.0	1148.699	1148.224	1149.289	1148.250	1147.828	1148.250	1149.289	1148.224	1148.699	1148.224
7.5	1140.374	1141.254	1142.451	1140.850	1140.656	1140.850	1142.451	1141.254	1140.374	1141.254
10.0	1130.140	1131.099	1131.830	1131.090	1129.806	1131.090	1131.830	1131.099	1130.140	1131.099
12.5	1118.550	1118.656	1119.052	1117.970	1117.767	1117.970	1119.052	1118.656	1118.550	1118.656
15.0	1104.039	1103.617	1103.846	1103.080	1102.605	1103.080	1103.846	1103.617	1104.039	1103.617
17.5	1086.043	1086.378	1086.818	1086.008	1085.559	1086.008	1086.818	1086.378	1086.043	1086.378
20.0	1066.190	1066.630	1067.123	1065.970	1064.501	1065.970	1067.123	1066.630	1066.190	1066.630
22.5	1043.918	1044.762	1044.234	1043.020	1042.210	1043.020	1044.234	1044.762	1043.918	1044.762
25.0	1021.108	1020.677	1020.342	1019.313	1018.336	1019.313	1020.342	1020.677	1021.108	1020.677
27.5	995.482	994.057	994.523	993.177	991.302	993.177	994.523	994.057	995.482	994.057
30.0	967.331	966.777	965.950	964.330	962.579	964.330	965.950	966.777	967.331	966.777
32.5	937.842	937.059	935.713	934.481	933.222	934.481	935.713	937.059	937.842	937.059
35.0	905.661	904.059	903.725	901.824	900.750	901.824	903.725	904.059	905.661	904.059
37.5	871.842	870.470	868.657	867.293	865.911	867.293	868.657	870.470	871.842	870.470
40.0	834.909	834.064	832.075	831.178	830.104	831.178	832.075	834.064	834.909	834.064
42.5	797.579	796.620	794.974	793.857	792.607	793.857	794.974	796.620	797.579	796.620
45.0	759.493	758.498	756.246	754.723	753.966	754.723	756.246	758.498	759.493	758.498
47.5	720.746	718.476	715.282	714.270	714.481	714.270	715.282	718.476	720.746	718.476
50.0	678.832	676.782	673.596	673.015	672.461	673.015	673.596	676.782	678.832	676.782
52.5	635.826	633.248	631.083	630.942	630.670	630.942	631.083	633.248	635.826	633.248
55.0	591.378	590.005	587.743	586.890	586.661	586.890	587.743	590.005	591.378	590.005
57.5	548.662	546.322	543.567	542.942	543.409	542.942	543.567	546.322	548.662	546.322
60.0	504.891	502.102	498.318	498.115	499.550	498.115	498.318	502.102	504.891	502.102
62.5	459.668	455.796	453.288	452.786	454.626	452.786	453.288	455.796	459.668	455.796
65.0	413.107	409.455	407.211	408.091	409.306	408.091	407.211	409.455	413.107	409.455
67.5	366.951	363.009	361.486	361.302	363.739	361.302	361.486	363.009	366.951	363.009
70.0	320.822	317.689	315.665	315.225	317.539	315.225	315.665	317.689	320.822	317.689
72.5	273.997	271.190	269.808	270.019	269.808	270.019	269.808	271.190	273.997	271.190
75.0	229.750	226.811	225.914	225.394	226.292	225.394	225.914	226.811	229.750	226.811
77.5	185.900	183.190	182.310	181.078	182.257	181.078	182.310	183.190	185.900	183.190
80.0	143.554	141.909	140.237	139.946	139.181	139.946	140.237	141.909	143.554	141.909
82.5	101.534	99.959	99.264	98.340	99.035	98.340	99.264	99.959	101.534	99.959
85.0	60.808	59.312	59.646	59.136	58.538	59.136	59.646	59.312	60.808	59.312
87.5	25.934	23.408	21.410	23.162	24.068	23.162	21.410	23.408	25.934	23.408
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	8.580	9.416	9.847	10.173	9.742	10.173	9.847	9.416	8.580	9.416
95.0	18.172	18.568	19.342	19.237	19.281	19.237	19.342	18.568	18.172	18.568
97.5	30.175	30.034	30.510	30.325	31.266	30.325	30.510	30.034	30.175	30.034
100.0	43.877	43.974	45.197	45.038	44.317	45.038	45.197	43.974	43.877	43.974
102.5	59.752	59.655	60.949	60.051	60.104	60.051	60.949	59.655	59.752	59.655
105.0	76.560	76.226	77.669	76.921	76.965	76.921	77.669	76.226	76.560	76.226
107.5	93.289	94.679	94.987	95.251	94.697	95.251	94.987	94.679	93.289	94.679
110.0	113.098	113.106	113.564	114.224	113.432	114.224	113.564	113.106	113.098	113.106
112.5	131.974	132.264	133.135	133.285	132.352	133.285	133.135	132.264	131.974	132.264
115.0	151.316	151.518	152.249	152.583	152.073	152.583	152.249	151.518	151.316	151.518
117.5	170.755	171.723	171.574	172.506	172.075	172.506	171.574	171.723	170.755	171.723
120.0	190.898	192.236	192.350	193.028	191.928	193.028	192.350	192.236	190.898	192.236
122.5	213.690	212.423	213.356	212.793	212.520	212.793	213.356	212.423	213.690	212.423
125.0	233.974	233.966	234.626	234.907	234.177	234.907	234.626	233.966	233.974	233.966
127.5	254.197	254.874	256.168	255.790	254.778	255.790	256.168	254.874	254.197	254.874
130.0	275.176	276.734	277.605	277.306	276.848	277.306	277.605	276.734	275.176	276.734
132.5	297.326	298.162	299.385	299.094	298.408	299.094	299.385	298.162	297.326	298.162

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QDF-33-LED35-MO-FWA-D9.IES

CANDELA TABULATION - (Cont.)

135.0	318.710	319.739	321.147	320.373	320.751	320.373	321.147	319.739	318.710	319.739
137.5	341.510	341.871	342.654	341.590	342.012	341.590	342.654	341.871	341.510	341.871
140.0	362.850	363.422	365.138	363.035	364.012	363.035	365.138	363.422	362.850	363.422
142.5	383.354	384.270	386.074	383.645	384.006	383.645	386.074	384.270	383.354	384.270
145.0	404.096	403.999	406.516	404.175	404.202	404.175	406.516	403.999	404.096	403.999
147.5	424.266	423.799	425.242	423.509	423.896	423.509	425.242	423.799	424.266	423.799
150.0	442.693	442.737	444.787	442.429	442.288	442.429	444.787	442.737	442.693	442.737
152.5	459.914	459.492	461.516	459.835	459.712	459.835	461.516	459.492	459.914	459.492
155.0	475.710	475.746	477.576	476.502	476.203	476.502	477.576	475.746	475.710	475.746
157.5	490.582	490.626	491.823	491.190	491.163	491.190	491.823	490.626	490.582	490.626
160.0	505.032	504.143	505.516	504.152	504.838	504.152	505.516	504.143	505.032	504.143
162.5	516.525	515.284	517.862	516.604	515.891	516.604	517.862	515.284	516.525	515.284
165.0	526.434	525.131	527.463	525.932	525.994	525.932	527.463	525.131	526.434	525.131
167.5	534.996	534.600	537.038	534.574	535.163	534.574	537.038	534.600	534.996	534.600
170.0	543.594	541.842	543.532	542.194	542.476	542.194	543.532	541.842	543.594	541.842
172.5	549.569	548.029	549.366	548.161	548.583	548.161	549.366	548.029	549.569	548.029
175.0	552.068	552.367	553.617	552.728	553.098	552.728	553.617	552.367	552.068	552.367
177.5	555.139	554.875	556.538	555.218	555.315	555.218	556.538	554.875	555.139	554.875
180.0	556.477	556.477	556.477	556.477	556.477	556.477	556.477	556.477	556.477	556.477

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1154.525	1154.525	1154.525	1154.525	1154.525	1154.525	1154.525
2.5	1153.891	1152.985	1152.360	1152.985	1153.891	1152.835	1151.682
5.0	1149.289	1148.250	1147.828	1148.250	1149.289	1148.224	1148.699
7.5	1142.451	1140.850	1140.656	1140.850	1142.451	1141.254	1140.374
10.0	1131.830	1131.090	1129.806	1131.090	1131.830	1131.099	1130.140
12.5	1119.052	1117.970	1117.767	1117.970	1119.052	1118.656	1118.550
15.0	1103.846	1103.080	1102.605	1103.080	1103.846	1103.617	1104.039
17.5	1086.818	1086.008	1085.559	1086.008	1086.818	1086.378	1086.043
20.0	1067.123	1065.970	1064.501	1065.970	1067.123	1066.630	1066.190
22.5	1044.234	1043.020	1042.210	1043.020	1044.234	1044.762	1043.918
25.0	1020.342	1019.313	1018.336	1019.313	1020.342	1020.677	1021.108
27.5	994.523	993.177	991.302	993.177	994.523	994.057	995.482
30.0	965.950	964.330	962.579	964.330	965.950	966.777	967.331
32.5	935.713	934.481	933.222	934.481	935.713	937.059	937.842
35.0	903.725	901.824	900.750	901.824	903.725	904.059	905.661
37.5	868.657	867.293	865.911	867.293	868.657	870.470	871.842
40.0	832.075	831.178	830.104	831.178	832.075	834.064	834.909
42.5	794.974	793.857	792.607	793.857	794.974	796.620	797.579
45.0	756.246	754.723	753.966	754.723	756.246	758.498	759.493
47.5	715.282	714.270	714.481	714.270	715.282	718.476	720.746
50.0	673.596	673.015	672.461	673.015	673.596	676.782	678.832
52.5	631.083	630.942	630.670	630.942	631.083	633.248	635.826
55.0	587.743	586.890	586.661	586.890	587.743	590.005	591.378
57.5	543.567	542.942	543.409	542.942	543.567	546.322	548.662
60.0	498.318	498.115	499.550	498.115	498.318	502.102	504.891
62.5	453.288	452.786	454.626	452.786	453.288	455.796	459.668
65.0	407.211	408.091	409.306	408.091	407.211	409.455	413.107
67.5	361.486	361.302	363.739	361.302	361.486	363.009	366.951
70.0	315.665	315.225	317.539	315.225	315.665	317.689	320.822
72.5	269.808	270.019	269.808	270.019	269.808	271.190	273.997
75.0	225.914	225.394	226.292	225.394	225.914	226.811	229.750
77.5	182.310	181.078	182.257	181.078	182.310	183.190	185.900
80.0	140.237	139.946	139.181	139.946	140.237	141.909	143.554

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QDF-33-LED35-MO-FWA-D9.IES

CANDELA TABULATION - (Cont.)

82.5	99.264	98.340	99.035	98.340	99.264	99.959	101.534
85.0	59.646	59.136	58.538	59.136	59.646	59.312	60.808
87.5	21.410	23.162	24.068	23.162	21.410	23.408	25.934
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	9.847	10.173	9.742	10.173	9.847	9.416	8.580
95.0	19.342	19.237	19.281	19.237	19.342	18.568	18.172
97.5	30.510	30.325	31.266	30.325	30.510	30.034	30.175
100.0	45.197	45.038	44.317	45.038	45.197	43.974	43.877
102.5	60.949	60.051	60.104	60.051	60.949	59.655	59.752
105.0	77.669	76.921	76.965	76.921	77.669	76.226	76.560
107.5	94.987	95.251	94.697	95.251	94.987	94.679	93.289
110.0	113.564	114.224	113.432	114.224	113.564	113.106	113.098
112.5	133.135	133.285	132.352	133.285	133.135	132.264	131.974
115.0	152.249	152.583	152.073	152.583	152.249	151.518	151.316
117.5	171.574	172.506	172.075	172.506	171.574	171.723	170.755
120.0	192.350	193.028	191.928	193.028	192.350	192.236	190.898
122.5	213.356	212.793	212.520	212.793	213.356	212.423	213.690
125.0	234.626	234.907	234.177	234.907	234.626	233.966	233.974
127.5	256.168	255.790	254.778	255.790	256.168	254.874	254.197
130.0	277.605	277.306	276.848	277.306	277.605	276.734	275.176
132.5	299.385	299.094	298.408	299.094	299.385	298.162	297.326
135.0	321.147	320.373	320.751	320.373	321.147	319.739	318.710
137.5	342.654	341.590	342.012	341.590	342.654	341.871	341.510
140.0	365.138	363.035	364.012	363.035	365.138	363.422	362.850
142.5	386.074	383.645	384.006	383.645	386.074	384.270	383.354
145.0	406.516	404.175	404.202	404.175	406.516	403.999	404.096
147.5	425.242	423.509	423.896	423.509	425.242	423.799	424.266
150.0	444.787	442.429	442.288	442.429	444.787	442.737	442.693
152.5	461.516	459.835	459.712	459.835	461.516	459.492	459.914
155.0	477.576	476.502	476.203	476.502	477.576	475.746	475.710
157.5	491.823	491.190	491.163	491.190	491.823	490.626	490.582
160.0	505.516	504.152	504.838	504.152	505.516	504.143	505.032
162.5	517.862	516.604	515.891	516.604	517.862	515.284	516.525
165.0	527.463	525.932	525.994	525.932	527.463	525.131	526.434
167.5	537.038	534.574	535.163	534.574	537.038	534.600	534.996
170.0	543.532	542.194	542.476	542.194	543.532	541.842	543.594
172.5	549.366	548.161	548.583	548.161	549.366	548.029	549.569
175.0	553.617	552.728	553.098	552.728	553.617	552.367	552.068
177.5	556.538	555.218	555.315	555.218	556.538	554.875	555.139
180.0	556.477	556.477	556.477	556.477	556.477	556.477	556.477

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QDF-33-LED35-MO-FWA-D9.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	420.44	N.A.	9.00
0-30	890.45	N.A.	19.10
0-40	1455.25	N.A.	31.20
0-60	2564.82	N.A.	55.00
0-80	3209.1	N.A.	68.80
0-90	3277.8	N.A.	70.30
10-90	3168.72	N.A.	68.00
20-40	1034.81	N.A.	22.20
20-50	1618.18	N.A.	34.70
40-70	1514.17	N.A.	32.50
60-80	644.28	N.A.	13.80
70-80	239.68	N.A.	5.10
80-90	68.70	N.A.	1.50
90-110	104.06	N.A.	2.20
90-120	254.79	N.A.	5.50
90-130	464.28	N.A.	10.00
90-150	964.35	N.A.	20.70
90-180	1384.4	N.A.	29.70
110-180	1280.35	N.A.	27.50
0-180	4662.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	109.08
10-20	311.36
20-30	470.01
30-40	564.80
40-50	583.37
50-60	526.20
60-70	404.60
70-80	239.68
80-90	68.70
90-100	22.12
100-110	81.94
110-120	150.74
120-130	209.48
130-140	247.13
140-150	252.93
150-160	219.21
160-170	148.39
170-180	52.45

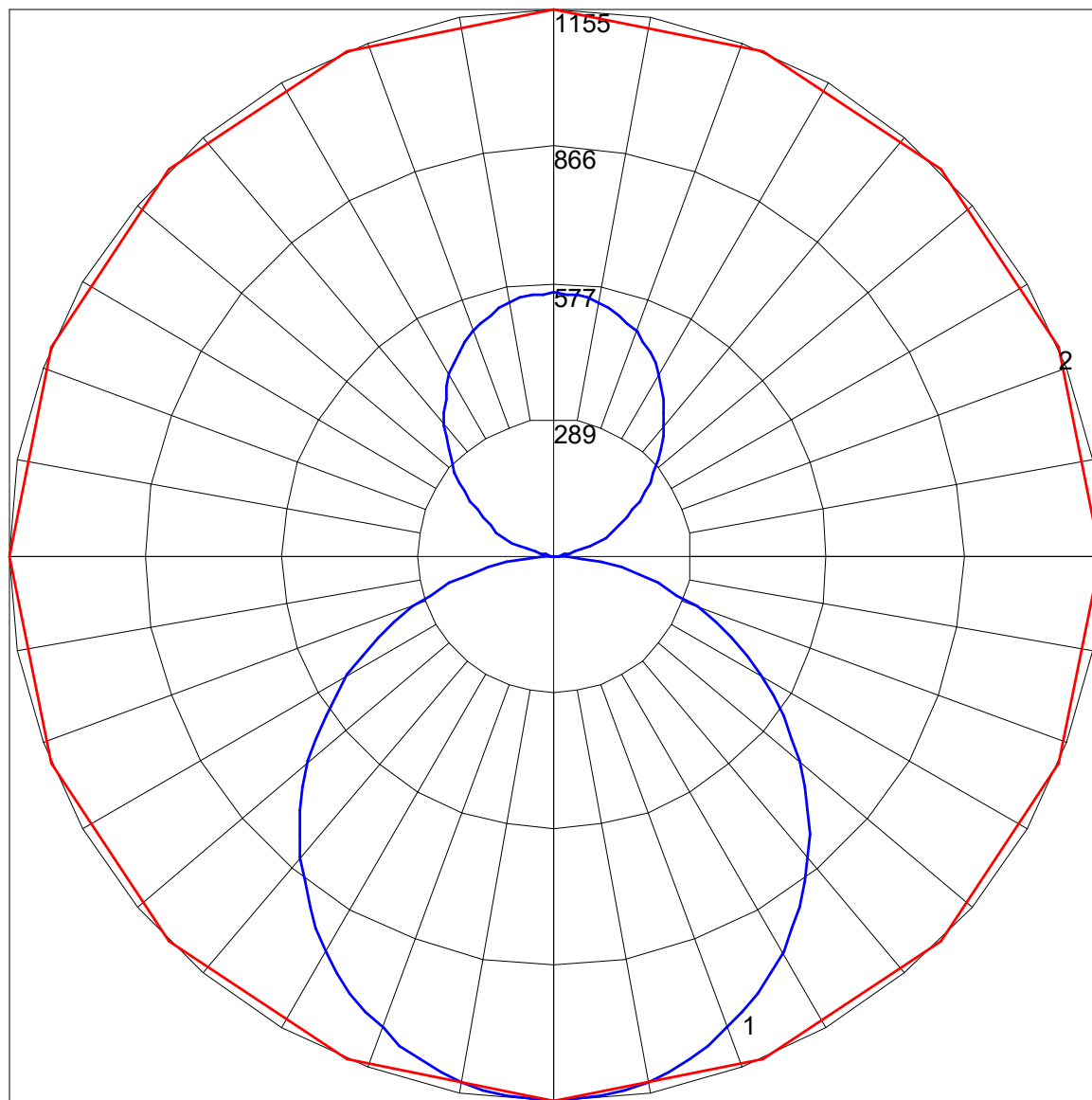
IES INDOOR REPORT
PHOTOMETRIC FILENAME : QDF-33-LED35-MO-FWA-D9.IES

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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70
1	102	97	93	90	96	92	89	85	83	80	77	74	72	70	66	64	63	59
2	93	85	78	73	87	80	75	70	72	68	64	65	61	58	57	55	52	49
3	84	74	67	60	79	71	64	58	63	58	53	57	52	49	51	47	44	41
4	77	66	57	51	73	62	55	49	56	50	45	51	46	42	45	41	38	35
5	71	59	50	44	67	56	48	42	50	44	39	45	40	36	41	36	33	30
6	65	53	44	38	62	50	42	37	45	39	34	41	36	31	37	32	29	26
7	60	48	39	33	57	45	38	32	41	35	30	37	32	28	34	29	26	23
8	56	43	35	30	53	41	34	29	38	31	27	34	29	25	31	26	23	21
9	52	40	32	26	49	38	31	26	34	28	24	31	26	22	28	24	21	19
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

POLAR GRAPH



Maximum Candela = 1154.525 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.)