



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 IESNA:LM-63-2002
 [TESTLAB] Intertek
 [ISSUE DATE] August 3, 2017
 [MANUFAC] Prudential Lighting
 [LAMP CAT] QDF-33-LED35-SO-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	7947
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	122
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	1921	1821	1907
55	1752	1630	1738
65	1534	1381	1520
75	1191	1026	1173
85	549	430	529

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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	1967.940	1967.940	1967.940	1967.940	1967.940	1967.940	1967.940	1967.940	1967.940	1967.940
2.5	1963.095	1965.060	1966.860	1965.315	1964.250	1965.315	1966.860	1965.060	1963.095	1965.060
5.0	1958.010	1957.200	1959.015	1957.245	1956.525	1957.245	1959.015	1957.200	1958.010	1957.200
7.5	1943.820	1945.320	1947.360	1944.630	1944.300	1944.630	1947.360	1945.320	1943.820	1945.320
10.0	1926.375	1928.010	1929.255	1927.995	1925.805	1927.995	1929.255	1928.010	1926.375	1928.010
12.5	1906.620	1906.800	1907.475	1905.630	1905.285	1905.630	1907.475	1906.800	1906.620	1906.800
15.0	1881.885	1881.165	1881.555	1880.250	1879.440	1880.250	1881.555	1881.165	1881.885	1881.165
17.5	1851.210	1851.780	1852.530	1851.150	1850.385	1851.150	1852.530	1851.780	1851.210	1851.780
20.0	1817.370	1818.120	1818.960	1816.995	1814.490	1816.995	1818.960	1818.120	1817.370	1818.120
22.5	1779.405	1780.845	1779.945	1777.875	1776.495	1777.875	1779.945	1780.845	1779.405	1780.845
25.0	1740.525	1739.790	1739.220	1737.465	1735.800	1737.465	1739.220	1739.790	1740.525	1739.790
27.5	1696.845	1694.415	1695.210	1692.915	1689.720	1692.915	1695.210	1694.415	1696.845	1694.415
30.0	1648.860	1647.915	1646.505	1643.745	1640.760	1643.745	1646.505	1647.915	1648.860	1647.915
32.5	1598.595	1597.260	1594.965	1592.865	1590.720	1592.865	1594.965	1597.260	1598.595	1597.260
35.0	1543.740	1541.010	1540.440	1537.200	1535.370	1537.200	1540.440	1541.010	1543.740	1541.010
37.5	1486.095	1483.755	1480.665	1478.340	1475.985	1478.340	1480.665	1483.755	1486.095	1483.755
40.0	1423.140	1421.700	1418.310	1416.780	1414.950	1416.780	1418.310	1421.700	1423.140	1421.700
42.5	1359.510	1357.875	1355.070	1353.165	1351.035	1353.165	1355.070	1357.875	1359.510	1357.875
45.0	1294.590	1292.895	1289.055	1286.460	1285.170	1286.460	1289.055	1292.895	1294.590	1292.895
47.5	1228.545	1224.675	1219.230	1217.505	1217.865	1217.505	1219.230	1224.675	1228.545	1224.675
50.0	1157.100	1153.605	1148.175	1147.185	1146.240	1147.185	1148.175	1153.605	1157.100	1153.605
52.5	1083.795	1079.400	1075.710	1075.470	1075.005	1075.470	1079.400	1083.795	1079.400	1075.710
55.0	1008.030	1005.690	1001.835	1000.380	999.990	1000.380	1001.835	1005.690	1008.030	1005.690
57.5	935.220	931.230	926.535	925.470	926.265	925.470	926.535	931.230	935.220	931.230
60.0	860.610	855.855	849.405	849.060	851.505	849.060	849.405	855.855	860.610	855.855
62.5	783.525	776.925	772.650	771.795	774.930	771.795	772.650	776.925	783.525	776.925
65.0	704.160	697.935	694.110	695.610	697.680	695.610	694.110	697.935	704.160	697.935
67.5	625.485	618.765	616.170	615.855	620.010	615.855	616.170	618.765	625.485	618.765
70.0	546.855	541.515	538.065	537.315	541.260	537.315	538.065	541.515	546.855	541.515
72.5	467.040	462.255	459.900	460.260	459.900	460.260	459.900	462.255	467.040	462.255
75.0	391.620	386.610	385.080	384.195	385.725	384.195	385.080	386.610	391.620	386.610
77.5	316.875	312.255	310.755	308.655	310.665	308.655	310.755	312.255	316.875	312.255
80.0	244.695	241.890	239.040	238.545	237.240	238.545	239.040	241.890	244.695	241.890
82.5	173.070	170.385	169.200	167.625	168.810	167.625	169.200	170.385	173.070	170.385
85.0	103.650	101.100	101.670	100.800	99.780	100.800	101.670	101.100	103.650	101.100
87.5	44.205	39.900	36.495	39.480	41.025	39.480	36.495	39.900	44.205	39.900
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	14.625	16.050	16.785	17.340	16.605	17.340	16.785	16.050	14.625	16.050
95.0	30.975	31.650	32.970	32.790	32.865	32.790	32.970	31.650	30.975	31.650
97.5	51.435	51.195	52.005	51.690	53.295	51.690	52.005	51.195	51.435	51.195
100.0	74.790	74.955	77.040	76.770	75.540	76.770	77.040	74.955	74.790	74.955
102.5	101.850	101.685	103.890	102.360	102.450	102.360	103.890	101.685	101.850	101.685
105.0	130.500	129.930	132.390	131.115	131.190	131.115	132.390	129.930	130.500	129.930
107.5	159.015	161.385	161.910	162.360	161.415	162.360	161.910	161.385	159.015	161.385
110.0	192.780	192.795	193.575	194.700	193.350	194.700	193.575	192.795	192.780	192.795
112.5	224.955	225.450	226.935	227.190	225.600	227.190	226.935	225.450	224.955	225.450
115.0	257.925	258.270	259.515	260.085	259.215	260.085	259.515	258.270	257.925	258.270
117.5	291.060	292.710	292.455	294.045	293.310	294.045	292.455	292.710	291.060	292.710
120.0	325.395	327.675	327.870	329.025	327.150	329.025	327.870	327.675	325.395	327.675
122.5	364.245	362.085	363.675	362.715	362.250	362.715	363.675	362.085	364.245	362.085
125.0	398.820	398.805	399.930	400.410	399.165	400.410	399.930	398.805	398.820	398.805
127.5	433.290	434.445	436.650	436.005	434.280	436.005	436.650	434.445	433.290	434.445
130.0	469.050	471.705	473.190	472.680	471.900	472.680	473.190	471.705	469.050	471.705
132.5	506.805	508.230	510.315	509.820	508.650	509.820	510.315	508.230	506.805	508.230

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135.0	543.255	545.010	547.410	546.090	546.735	546.090	547.410	545.010	543.255	545.010
137.5	582.120	582.735	584.070	582.255	582.975	582.255	584.070	582.735	582.120	582.735
140.0	618.495	619.470	622.395	618.810	620.475	618.810	622.395	619.470	618.495	619.470
142.5	653.445	655.005	658.080	653.940	654.555	653.940	658.080	655.005	653.445	655.005
145.0	688.800	688.635	692.925	688.935	688.980	688.935	692.925	688.635	688.800	688.635
147.5	723.180	722.385	724.845	721.890	722.550	721.890	724.845	722.385	723.180	722.385
150.0	754.590	754.665	758.160	754.140	753.900	754.140	758.160	754.665	754.590	754.665
152.5	783.945	783.225	786.675	783.810	783.600	783.810	786.675	783.225	783.945	783.225
155.0	810.870	810.930	814.050	812.220	811.710	812.220	814.050	810.930	810.870	810.930
157.5	836.220	836.295	838.335	837.255	837.210	837.255	838.335	836.295	836.220	836.295
160.0	860.850	859.335	861.675	859.350	860.520	859.350	861.675	859.335	860.850	859.335
162.5	880.440	878.325	882.720	880.575	879.360	880.575	882.720	878.325	880.440	878.325
165.0	897.330	895.110	899.085	896.475	896.580	896.475	899.085	895.110	897.330	895.110
167.5	911.925	911.250	915.405	911.205	912.210	911.205	915.405	911.250	911.925	911.250
170.0	926.580	923.595	926.475	924.195	924.675	924.195	926.475	923.595	926.580	923.595
172.5	936.765	934.140	936.420	934.365	935.085	934.365	936.420	934.140	936.765	934.140
175.0	941.025	941.535	943.665	942.150	942.780	942.150	943.665	941.535	941.025	941.535
177.5	946.260	945.810	948.645	946.395	946.560	946.395	948.645	945.810	946.260	945.810
180.0	948.540	948.540	948.540	948.540	948.540	948.540	948.540	948.540	948.540	948.540

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	1967.940	1967.940	1967.940	1967.940	1967.940	1967.940	1967.940
2.5	1966.860	1965.315	1964.250	1965.315	1966.860	1965.060	1963.095
5.0	1959.015	1957.245	1956.525	1957.245	1959.015	1957.200	1958.010
7.5	1947.360	1944.630	1944.300	1944.630	1947.360	1945.320	1943.820
10.0	1929.255	1927.995	1925.805	1927.995	1929.255	1928.010	1926.375
12.5	1907.475	1905.630	1905.285	1905.630	1907.475	1906.800	1906.620
15.0	1881.555	1880.250	1879.440	1880.250	1881.555	1881.165	1881.885
17.5	1852.530	1851.150	1850.385	1851.150	1852.530	1851.780	1851.210
20.0	1818.960	1816.995	1814.490	1816.995	1818.960	1818.120	1817.370
22.5	1779.945	1777.875	1776.495	1777.875	1779.945	1780.845	1779.405
25.0	1739.220	1737.465	1735.800	1737.465	1739.220	1739.790	1740.525
27.5	1695.210	1692.915	1689.720	1692.915	1695.210	1694.415	1696.845
30.0	1646.505	1643.745	1640.760	1643.745	1646.505	1647.915	1648.860
32.5	1594.965	1592.865	1590.720	1592.865	1594.965	1597.260	1598.595
35.0	1540.440	1537.200	1535.370	1537.200	1540.440	1541.010	1543.740
37.5	1480.665	1478.340	1475.985	1478.340	1480.665	1483.755	1486.095
40.0	1418.310	1416.780	1414.950	1416.780	1418.310	1421.700	1423.140
42.5	1355.070	1353.165	1351.035	1353.165	1355.070	1357.875	1359.510
45.0	1289.055	1286.460	1285.170	1286.460	1289.055	1292.895	1294.590
47.5	1219.230	1217.505	1217.865	1217.505	1219.230	1224.675	1228.545
50.0	1148.175	1147.185	1146.240	1147.185	1148.175	1153.605	1157.100
52.5	1075.710	1075.470	1075.005	1075.470	1075.710	1079.400	1083.795
55.0	1001.835	1000.380	999.990	1000.380	1001.835	1005.690	1008.030
57.5	926.535	925.470	926.265	925.470	926.535	931.230	935.220
60.0	849.405	849.060	851.505	849.060	849.405	855.855	860.610
62.5	772.650	771.795	774.930	771.795	772.650	776.925	783.525
65.0	694.110	695.610	697.680	695.610	694.110	697.935	704.160
67.5	616.170	615.855	620.010	615.855	616.170	618.765	625.485
70.0	538.065	537.315	541.260	537.315	538.065	541.515	546.855
72.5	459.900	460.260	459.900	460.260	459.900	462.255	467.040
75.0	385.080	384.195	385.725	384.195	385.080	386.610	391.620
77.5	310.755	308.655	310.665	308.655	310.755	312.255	316.875
80.0	239.040	238.545	237.240	238.545	239.040	241.890	244.695

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CANDELA TABULATION - (Cont.)

82.5	169.200	167.625	168.810	167.625	169.200	170.385	173.070
85.0	101.670	100.800	99.780	100.800	101.670	101.100	103.650
87.5	36.495	39.480	41.025	39.480	36.495	39.900	44.205
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	16.785	17.340	16.605	17.340	16.785	16.050	14.625
95.0	32.970	32.790	32.865	32.790	32.970	31.650	30.975
97.5	52.005	51.690	53.295	51.690	52.005	51.195	51.435
100.0	77.040	76.770	75.540	76.770	77.040	74.955	74.790
102.5	103.890	102.360	102.450	102.360	103.890	101.685	101.850
105.0	132.390	131.115	131.190	131.115	132.390	129.930	130.500
107.5	161.910	162.360	161.415	162.360	161.910	161.385	159.015
110.0	193.575	194.700	193.350	194.700	193.575	192.795	192.780
112.5	226.935	227.190	225.600	227.190	226.935	225.450	224.955
115.0	259.515	260.085	259.215	260.085	259.515	258.270	257.925
117.5	292.455	294.045	293.310	294.045	292.455	292.710	291.060
120.0	327.870	329.025	327.150	329.025	327.870	327.675	325.395
122.5	363.675	362.715	362.250	362.715	363.675	362.085	364.245
125.0	399.930	400.410	399.165	400.410	399.930	398.805	398.820
127.5	436.650	436.005	434.280	436.005	436.650	434.445	433.290
130.0	473.190	472.680	471.900	472.680	473.190	471.705	469.050
132.5	510.315	509.820	508.650	509.820	510.315	508.230	506.805
135.0	547.410	546.090	546.735	546.090	547.410	545.010	543.255
137.5	584.070	582.255	582.975	582.255	584.070	582.735	582.120
140.0	622.395	618.810	620.475	618.810	622.395	619.470	618.495
142.5	658.080	653.940	654.555	653.940	658.080	655.005	653.445
145.0	692.925	688.935	688.980	688.935	692.925	688.635	688.800
147.5	724.845	721.890	722.550	721.890	724.845	722.385	723.180
150.0	758.160	754.140	753.900	754.140	758.160	754.665	754.590
152.5	786.675	783.810	783.600	783.810	786.675	783.225	783.945
155.0	814.050	812.220	811.710	812.220	814.050	810.930	810.870
157.5	838.335	837.255	837.210	837.255	838.335	836.295	836.220
160.0	861.675	859.350	860.520	859.350	861.675	859.335	860.850
162.5	882.720	880.575	879.360	880.575	882.720	878.325	880.440
165.0	899.085	896.475	896.580	896.475	899.085	895.110	897.330
167.5	915.405	911.205	912.210	911.205	915.405	911.250	911.925
170.0	926.475	924.195	924.675	924.195	926.475	923.595	926.580
172.5	936.420	934.365	935.085	934.365	936.420	934.140	936.765
175.0	943.665	942.150	942.780	942.150	943.665	941.535	941.025
177.5	948.645	946.395	946.560	946.395	948.645	945.810	946.260
180.0	948.540	948.540	948.540	948.540	948.540	948.540	948.540

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	716.66	N.A.	9.00
0-30	1517.81	N.A.	19.10
0-40	2480.54	N.A.	31.20
0-60	4371.85	N.A.	55.00
0-80	5470.06	N.A.	68.80
0-90	5587.16	N.A.	70.30
10-90	5401.23	N.A.	68.00
20-40	1763.87	N.A.	22.20
20-50	2758.26	N.A.	34.70
40-70	2580.97	N.A.	32.50
60-80	1098.21	N.A.	13.80
70-80	408.55	N.A.	5.10
80-90	117.11	N.A.	1.50
90-110	177.37	N.A.	2.20
90-120	434.31	N.A.	5.50
90-130	791.38	N.A.	10.00
90-150	1643.77	N.A.	20.70
90-180	2359.78	N.A.	29.70
110-180	2182.41	N.A.	27.50
0-180	7946.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	185.93
10-20	530.73
20-30	801.15
30-40	962.73
40-50	994.38
50-60	896.93
60-70	689.65
70-80	408.55
80-90	117.11
90-100	37.70
100-110	139.67
110-120	256.94
120-130	357.08
130-140	421.25
140-150	431.14
150-160	373.66
160-170	252.94
170-180	89.41

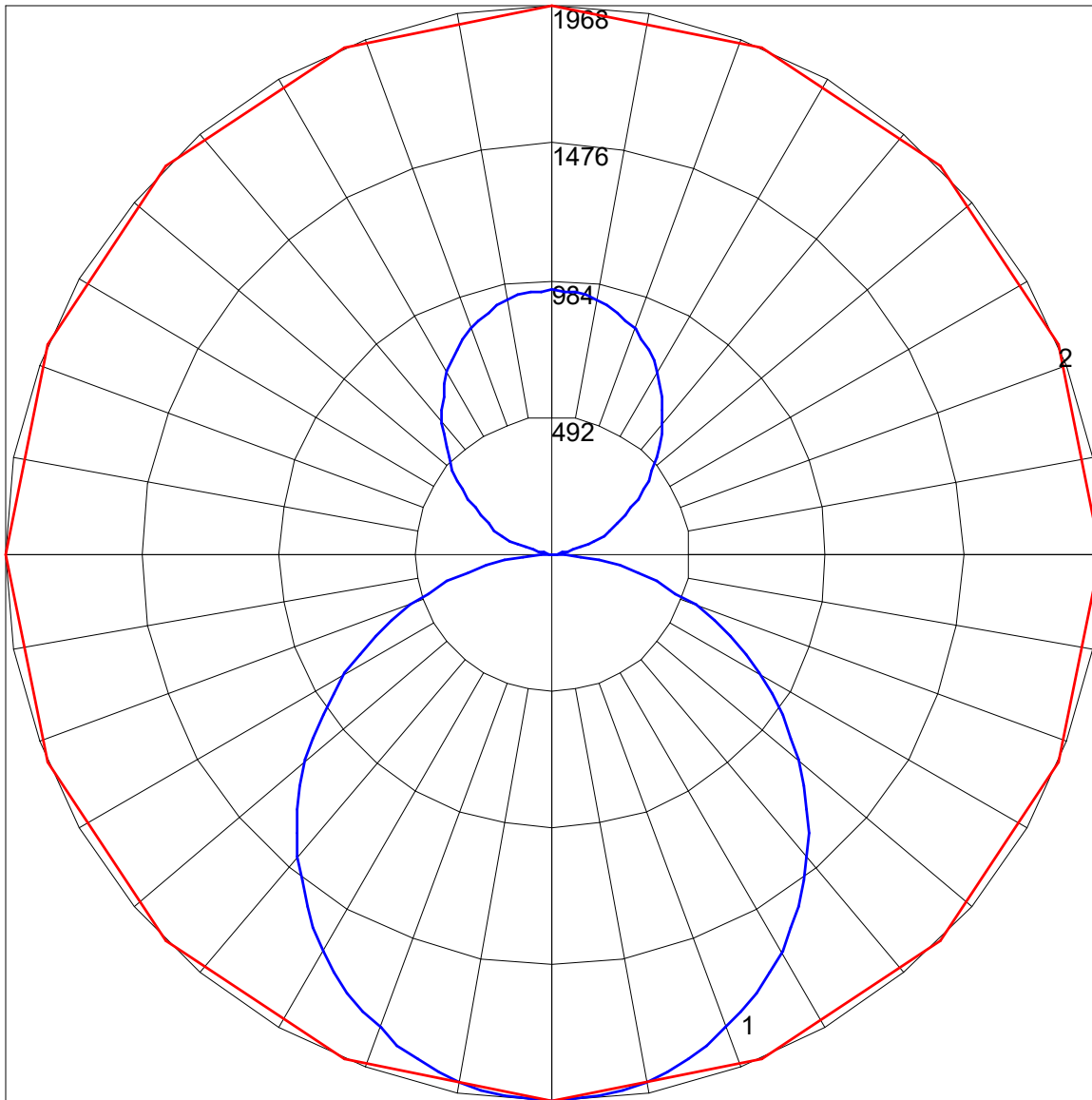
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1967.94 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.)