



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QDF-44-LED35-MO-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
 [LAMPCAT] QDF-44-LED35-MO-FWA-D9
 [LUMINAIRE] 4' x 4' 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	6252
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	96
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)	4.00 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.42 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	877	840	870
55	809	763	802
65	720	660	713
75	576	508	567
85	287	230	276

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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	1548.113	1548.113	1548.113	1548.113	1548.113	1548.113	1548.113	1548.113	1548.113	1548.113
2.5	1544.301	1545.847	1547.263	1546.048	1545.210	1546.048	1547.263	1545.847	1544.301	1545.847
5.0	1540.301	1539.664	1541.092	1539.699	1539.133	1539.699	1541.092	1539.664	1540.301	1539.664
7.5	1529.138	1530.318	1531.923	1529.776	1529.516	1529.776	1531.923	1530.318	1529.138	1530.318
10.0	1515.415	1516.701	1517.681	1516.689	1514.967	1516.689	1517.681	1516.701	1515.415	1516.701
12.5	1499.874	1500.016	1500.547	1499.096	1498.824	1499.096	1500.547	1500.016	1499.874	1500.016
15.0	1480.416	1479.850	1480.157	1479.130	1478.493	1479.130	1480.157	1479.850	1480.416	1479.850
17.5	1456.285	1456.734	1457.324	1456.238	1455.636	1456.238	1457.324	1456.734	1456.285	1456.734
20.0	1429.664	1430.254	1430.915	1429.369	1427.399	1429.369	1430.915	1430.254	1429.664	1430.254
22.5	1399.799	1400.931	1400.223	1398.595	1397.509	1398.595	1400.223	1400.931	1399.799	1400.931
25.0	1369.213	1368.635	1368.186	1366.806	1365.496	1366.806	1368.186	1368.635	1369.213	1368.635
27.5	1334.851	1332.940	1333.565	1331.760	1329.246	1331.760	1333.565	1332.940	1334.851	1332.940
30.0	1297.103	1296.360	1295.251	1293.079	1290.731	1293.079	1295.251	1296.360	1297.103	1296.360
32.5	1257.561	1256.511	1254.706	1253.054	1251.366	1253.054	1254.706	1256.511	1257.561	1256.511
35.0	1214.409	1212.261	1211.813	1209.264	1207.824	1209.264	1211.813	1212.261	1214.409	1212.261
37.5	1169.061	1167.221	1164.790	1162.961	1161.108	1162.961	1164.790	1167.221	1169.061	1167.221
40.0	1119.537	1118.404	1115.737	1114.534	1113.094	1114.534	1115.737	1118.404	1119.537	1118.404
42.5	1069.481	1068.195	1065.988	1064.490	1062.814	1064.490	1065.988	1068.195	1069.481	1068.195
45.0	1018.411	1017.077	1014.057	1012.015	1011.000	1012.015	1014.057	1017.077	1018.411	1017.077
47.5	966.455	963.411	959.128	957.771	958.054	957.771	959.128	963.411	966.455	963.411
50.0	910.252	907.503	903.231	902.452	901.709	902.452	903.231	907.503	910.252	907.503
52.5	852.585	849.128	846.225	846.036	845.671	846.036	846.225	849.128	852.585	849.128
55.0	792.984	791.143	788.110	786.966	786.659	786.966	788.110	791.143	792.984	791.143
57.5	735.706	732.568	728.874	728.036	728.662	728.036	728.874	732.568	735.706	732.568
60.0	677.013	673.273	668.199	667.927	669.851	667.927	668.199	673.273	677.013	673.273
62.5	616.373	611.181	607.818	607.145	609.612	607.145	607.818	611.181	616.373	611.181
65.0	553.939	549.042	546.033	547.213	548.842	547.213	546.033	549.042	553.939	549.042
67.5	492.048	486.762	484.720	484.473	487.741	484.473	484.720	486.762	492.048	486.762
70.0	430.193	425.992	423.278	422.688	425.791	422.688	423.278	425.992	430.193	425.992
72.5	367.405	363.641	361.788	362.071	361.788	362.071	361.788	363.641	367.405	363.641
75.0	308.074	304.133	302.930	302.233	303.437	302.233	302.930	304.133	308.074	304.133
77.5	249.275	245.641	244.461	242.809	244.390	242.809	244.461	245.641	249.275	245.641
80.0	192.493	190.287	188.045	187.655	186.629	187.655	188.045	190.287	192.493	190.287
82.5	136.148	134.036	133.104	131.865	132.797	131.865	133.104	134.036	136.148	134.036
85.0	81.538	79.532	79.980	79.296	78.494	79.296	79.980	79.532	81.538	79.532
87.5	34.775	31.388	28.709	31.058	32.273	31.058	28.709	31.388	34.775	31.388
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	11.505	12.626	13.204	13.641	13.063	13.641	13.204	12.626	11.505	12.626
95.0	24.367	24.898	25.936	25.795	25.854	25.795	25.936	24.898	24.367	24.898
97.5	40.462	40.273	40.911	40.663	41.925	40.663	40.911	40.273	40.462	40.273
100.0	58.835	58.965	60.605	60.392	59.425	60.392	60.605	58.965	58.835	58.965
102.5	80.122	79.992	81.727	80.523	80.594	80.523	81.727	79.992	80.122	79.992
105.0	102.660	102.212	104.147	103.144	103.203	103.144	104.147	102.212	102.660	102.212
107.5	125.092	126.956	127.369	127.723	126.980	127.723	127.369	126.956	125.092	126.956
110.0	151.654	151.665	152.279	153.164	152.102	153.164	152.279	151.665	151.654	151.665
112.5	176.965	177.354	178.522	178.723	177.472	178.723	178.522	177.354	176.965	177.354
115.0	202.901	203.172	204.152	204.600	203.916	204.600	204.152	203.172	202.901	203.172
117.5	228.967	230.265	230.065	231.315	230.737	231.315	230.065	230.265	228.967	230.265
120.0	255.977	257.771	257.924	258.833	257.358	258.833	257.924	257.771	255.977	257.771
122.5	286.539	284.840	286.091	285.336	284.970	285.336	286.091	284.840	286.539	284.840
125.0	313.738	313.727	314.612	314.989	314.010	314.989	314.612	313.727	313.738	313.727
127.5	340.855	341.763	343.498	342.991	341.634	342.991	343.498	341.763	340.855	341.763
130.0	368.986	371.075	372.243	371.842	371.228	371.842	372.243	371.075	368.986	371.075
132.5	398.687	399.808	401.448	401.058	400.138	401.058	401.448	399.808	398.687	399.808

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CANDELA TABULATION - (Cont.)

135.0	427.361	428.741	430.629	429.591	430.098	429.591	430.629	428.741	427.361	428.741
137.5	457.934	458.418	459.468	458.041	458.607	458.041	459.468	458.418	457.934	458.418
140.0	486.549	487.316	489.617	486.797	488.107	486.797	489.617	487.316	486.549	487.316
142.5	514.043	515.271	517.690	514.433	514.917	514.433	517.690	515.271	514.043	515.271
145.0	541.856	541.726	545.101	541.962	541.998	541.962	545.101	541.726	541.856	541.726
147.5	568.902	568.276	570.211	567.887	568.406	567.887	570.211	568.276	568.902	568.276
150.0	593.611	593.670	596.419	593.257	593.068	593.257	596.419	593.670	593.611	593.670
152.5	616.703	616.137	618.851	616.597	616.432	616.597	618.851	616.137	616.703	616.137
155.0	637.884	637.932	640.386	638.946	638.545	638.946	640.386	637.932	637.884	637.932
157.5	657.826	657.885	659.490	658.641	658.605	658.641	659.490	657.885	657.826	657.885
160.0	677.202	676.010	677.851	676.022	676.942	676.022	677.851	676.010	677.202	676.010
162.5	692.613	690.949	694.406	692.719	691.763	692.719	694.406	690.949	692.613	690.949
165.0	705.900	704.153	707.280	705.227	705.310	705.227	707.280	704.153	705.900	704.153
167.5	717.381	716.850	720.119	716.815	717.605	716.815	720.119	716.850	717.381	716.850
170.0	728.910	726.561	728.827	727.033	727.411	727.033	728.827	726.561	728.910	726.561
172.5	736.922	734.857	736.650	735.034	735.600	735.034	736.650	734.857	736.922	734.857
175.0	740.273	740.674	742.350	741.158	741.654	741.158	742.350	740.674	740.273	740.674
177.5	744.391	744.037	746.267	744.497	744.627	744.497	746.267	744.037	744.391	744.037
180.0	746.185	746.185	746.185	746.185	746.185	746.185	746.185	746.185	746.185	746.185

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	1548.113	1548.113	1548.113	1548.113	1548.113	1548.113	1548.113
2.5	1547.263	1546.048	1545.210	1546.048	1547.263	1545.847	1544.301
5.0	1541.092	1539.699	1539.133	1539.699	1541.092	1539.664	1540.301
7.5	1531.923	1529.776	1529.516	1529.776	1531.923	1530.318	1529.138
10.0	1517.681	1516.689	1514.967	1516.689	1517.681	1516.701	1515.415
12.5	1500.547	1499.096	1498.824	1499.096	1500.547	1500.016	1499.874
15.0	1480.157	1479.130	1478.493	1479.130	1480.157	1479.850	1480.416
17.5	1457.324	1456.238	1455.636	1456.238	1457.324	1456.734	1456.285
20.0	1430.915	1429.369	1427.399	1429.369	1430.915	1430.254	1429.664
22.5	1400.223	1398.595	1397.509	1398.595	1400.223	1400.931	1399.799
25.0	1368.186	1366.806	1365.496	1366.806	1368.186	1368.635	1369.213
27.5	1333.565	1331.760	1329.246	1331.760	1333.565	1332.940	1334.851
30.0	1295.251	1293.079	1290.731	1293.079	1295.251	1296.360	1297.103
32.5	1254.706	1253.054	1251.366	1253.054	1254.706	1256.511	1257.561
35.0	1211.813	1209.264	1207.824	1209.264	1211.813	1212.261	1214.409
37.5	1164.790	1162.961	1161.108	1162.961	1164.790	1167.221	1169.061
40.0	1115.737	1114.534	1113.094	1114.534	1115.737	1118.404	1119.537
42.5	1065.988	1064.490	1062.814	1064.490	1065.988	1068.195	1069.481
45.0	1014.057	1012.015	1011.000	1012.015	1014.057	1017.077	1018.411
47.5	959.128	957.771	958.054	957.771	959.128	963.411	966.455
50.0	903.231	902.452	901.709	902.452	903.231	907.503	910.252
52.5	846.225	846.036	845.671	846.036	846.225	849.128	852.585
55.0	788.110	786.966	786.659	786.966	788.110	791.143	792.984
57.5	728.874	728.036	728.662	728.036	728.874	732.568	735.706
60.0	668.199	667.927	669.851	667.927	668.199	673.273	677.013
62.5	607.818	607.145	609.612	607.145	607.818	611.181	616.373
65.0	546.033	547.213	548.842	547.213	546.033	549.042	553.939
67.5	484.720	484.473	487.741	484.473	484.720	486.762	492.048
70.0	423.278	422.688	425.791	422.688	423.278	425.992	430.193
72.5	361.788	362.071	361.788	362.071	361.788	363.641	367.405
75.0	302.930	302.233	303.437	302.233	302.930	304.133	308.074
77.5	244.461	242.809	244.390	242.809	244.461	245.641	249.275
80.0	188.045	187.655	186.629	187.655	188.045	190.287	192.493

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CANDELA TABULATION - (Cont.)

82.5	133.104	131.865	132.797	131.865	133.104	134.036	136.148
85.0	79.980	79.296	78.494	79.296	79.980	79.532	81.538
87.5	28.709	31.058	32.273	31.058	28.709	31.388	34.775
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	13.204	13.641	13.063	13.641	13.204	12.626	11.505
95.0	25.936	25.795	25.854	25.795	25.936	24.898	24.367
97.5	40.911	40.663	41.925	40.663	40.911	40.273	40.462
100.0	60.605	60.392	59.425	60.392	60.605	58.965	58.835
102.5	81.727	80.523	80.594	80.523	81.727	79.992	80.122
105.0	104.147	103.144	103.203	103.144	104.147	102.212	102.660
107.5	127.369	127.723	126.980	127.723	127.369	126.956	125.092
110.0	152.279	153.164	152.102	153.164	152.279	151.665	151.654
112.5	178.522	178.723	177.472	178.723	178.522	177.354	176.965
115.0	204.152	204.600	203.916	204.600	204.152	203.172	202.901
117.5	230.065	231.315	230.737	231.315	230.065	230.265	228.967
120.0	257.924	258.833	257.358	258.833	257.924	257.771	255.977
122.5	286.091	285.336	284.970	285.336	286.091	284.840	286.539
125.0	314.612	314.989	314.010	314.989	314.612	313.727	313.738
127.5	343.498	342.991	341.634	342.991	343.498	341.763	340.855
130.0	372.243	371.842	371.228	371.842	372.243	371.075	368.986
132.5	401.448	401.058	400.138	401.058	401.448	399.808	398.687
135.0	430.629	429.591	430.098	429.591	430.629	428.741	427.361
137.5	459.468	458.041	458.607	458.041	459.468	458.418	457.934
140.0	489.617	486.797	488.107	486.797	489.617	487.316	486.549
142.5	517.690	514.433	514.917	514.433	517.690	515.271	514.043
145.0	545.101	541.962	541.998	541.962	545.101	541.726	541.856
147.5	570.211	567.887	568.406	567.887	570.211	568.276	568.902
150.0	596.419	593.257	593.068	593.257	596.419	593.670	593.611
152.5	618.851	616.597	616.432	616.597	618.851	616.137	616.703
155.0	640.386	638.946	638.545	638.946	640.386	637.932	637.884
157.5	659.490	658.641	658.605	658.641	659.490	657.885	657.826
160.0	677.851	676.022	676.942	676.022	677.851	676.010	677.202
162.5	694.406	692.719	691.763	692.719	694.406	690.949	692.613
165.0	707.280	705.227	705.310	705.227	707.280	704.153	705.900
167.5	720.119	716.815	717.605	716.815	720.119	716.850	717.381
170.0	728.827	727.033	727.411	727.033	728.827	726.561	728.910
172.5	736.650	735.034	735.600	735.034	736.650	734.857	736.922
175.0	742.350	741.158	741.654	741.158	742.350	740.674	740.273
177.5	746.267	744.497	744.627	744.497	746.267	744.037	744.391
180.0	746.185	746.185	746.185	746.185	746.185	746.185	746.185

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	563.77	N.A.	9.00
0-30	1194.01	N.A.	19.10
0-40	1951.36	N.A.	31.20
0-60	3439.19	N.A.	55.00
0-80	4303.11	N.A.	68.80
0-90	4395.24	N.A.	70.30
10-90	4248.97	N.A.	68.00
20-40	1387.58	N.A.	22.20
20-50	2169.83	N.A.	34.70
40-70	2030.36	N.A.	32.50
60-80	863.92	N.A.	13.80
70-80	321.39	N.A.	5.10
80-90	92.12	N.A.	1.50
90-110	139.53	N.A.	2.20
90-120	341.66	N.A.	5.50
90-130	622.56	N.A.	10.00
90-150	1293.1	N.A.	20.70
90-180	1856.36	N.A.	29.70
110-180	1716.83	N.A.	27.50
0-180	6251.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.26
10-20	417.51
20-30	630.23
30-40	757.35
40-50	782.25
50-60	705.59
60-70	542.53
70-80	321.39
80-90	92.12
90-100	29.66
100-110	109.87
110-120	202.12
120-130	280.90
130-140	331.38
140-150	339.16
150-160	293.95
160-170	198.98
170-180	70.33

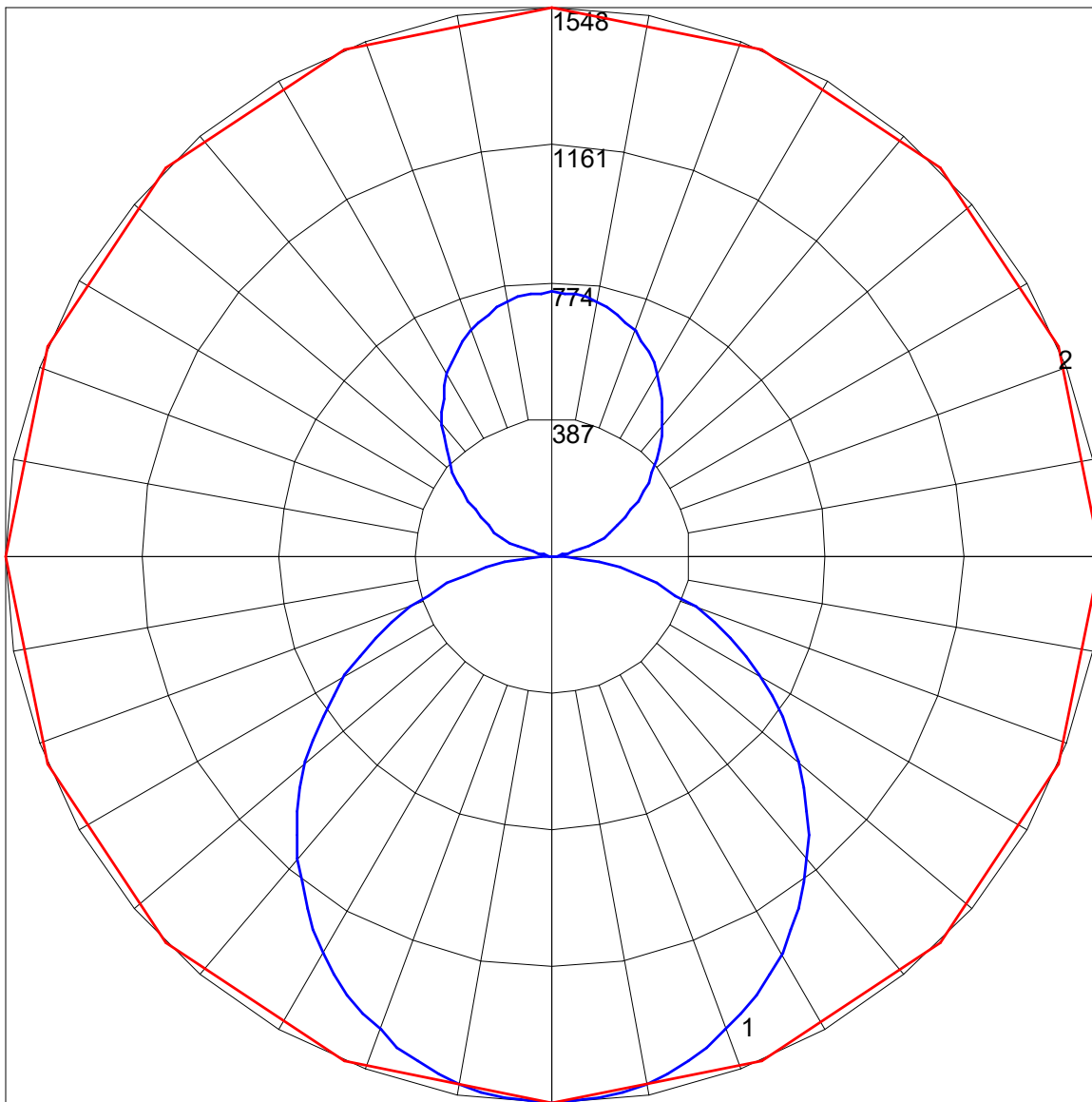
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1548.113 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.)