



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QDF-22-LED35-HO-FWA-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] QDF-22-LED35-HO-FWA-D9

[TESTLAB] Intertek

[ISSUE DATE] August 3, 2017

[MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6622
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	105
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)	2.21 ft
Luminous Width (90-270)	2.21 ft
Luminous Height	0.42 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2830	2644	2810
55	2544	2324	2524
65	2180	1920	2160
75	1632	1370	1607
85	692	529	666

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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	1639.950	1639.950	1639.950	1639.950	1639.950	1639.950	1639.950	1639.950	1639.950	1639.950
2.5	1635.912	1637.550	1639.050	1637.763	1636.875	1637.763	1639.050	1637.550	1635.912	1637.550
5.0	1631.675	1631.000	1632.513	1631.037	1630.438	1631.037	1632.513	1631.000	1631.675	1631.000
7.5	1619.850	1621.100	1622.800	1620.525	1620.250	1620.525	1622.800	1621.100	1619.850	1621.100
10.0	1605.313	1606.675	1607.713	1606.662	1604.838	1606.662	1607.713	1606.675	1605.313	1606.675
12.5	1588.850	1589.000	1589.563	1588.025	1587.737	1588.025	1589.563	1589.000	1588.850	1589.000
15.0	1568.237	1567.638	1567.963	1566.875	1566.200	1566.875	1567.963	1567.638	1568.237	1567.638
17.5	1542.675	1543.150	1543.775	1542.625	1541.987	1542.625	1543.775	1543.150	1542.675	1543.150
20.0	1514.475	1515.100	1515.800	1514.162	1512.075	1514.162	1515.800	1515.100	1514.475	1515.100
22.5	1482.838	1484.037	1483.287	1481.563	1480.412	1481.563	1483.287	1484.037	1482.838	1484.037
25.0	1450.438	1449.825	1449.350	1447.888	1446.500	1447.888	1449.350	1449.825	1450.438	1449.825
27.5	1414.037	1412.013	1412.675	1410.763	1408.100	1410.763	1412.675	1412.013	1414.037	1412.013
30.0	1374.050	1373.263	1372.088	1369.787	1367.300	1369.787	1372.088	1373.263	1374.050	1373.263
32.5	1332.162	1331.050	1329.138	1327.388	1325.600	1327.388	1329.138	1331.050	1332.162	1331.050
35.0	1286.450	1284.175	1283.700	1281.000	1279.475	1281.000	1283.700	1284.175	1286.450	1284.175
37.5	1238.412	1236.463	1233.888	1231.950	1229.987	1231.950	1233.888	1236.463	1238.412	1236.463
40.0	1185.950	1184.750	1181.925	1180.650	1179.125	1180.650	1181.925	1184.750	1185.950	1184.750
42.5	1132.925	1131.563	1129.225	1127.638	1125.862	1127.638	1129.225	1131.563	1132.925	1131.563
45.0	1078.825	1077.412	1074.213	1072.050	1070.975	1072.050	1074.213	1077.412	1078.825	1077.412
47.5	1023.788	1020.563	1016.025	1014.587	1014.888	1014.587	1016.025	1020.563	1023.788	1020.563
50.0	964.250	961.337	956.813	955.987	955.200	955.987	956.813	961.337	964.250	961.337
52.5	903.163	899.500	896.425	896.225	895.837	896.225	896.425	899.500	903.163	899.500
55.0	840.025	838.075	834.862	833.650	833.325	833.650	834.862	838.075	840.025	838.075
57.5	779.350	776.025	772.112	771.225	771.888	771.225	772.112	776.025	779.350	776.025
60.0	717.175	713.212	707.837	707.550	709.587	707.550	707.837	713.212	717.175	713.212
62.5	652.938	647.438	643.875	643.163	645.775	643.163	643.875	647.438	652.938	647.438
65.0	586.800	581.612	578.425	579.675	581.400	579.675	578.425	581.612	586.800	581.612
67.5	521.237	515.638	513.475	513.212	516.675	513.212	513.475	515.638	521.237	515.638
70.0	455.712	451.262	448.387	447.762	451.050	447.762	448.387	451.262	455.712	451.262
72.5	389.200	385.212	383.250	383.550	383.250	383.550	383.250	385.212	389.200	385.212
75.0	326.350	322.175	320.900	320.163	321.438	320.163	320.900	322.175	326.350	322.175
77.5	264.063	260.212	258.962	257.212	258.887	257.212	258.962	260.212	264.063	260.212
80.0	203.912	201.575	199.200	198.787	197.700	198.787	199.200	201.575	203.912	201.575
82.5	144.225	141.988	141.000	139.688	140.675	139.688	141.000	141.988	144.225	141.988
85.0	86.375	84.250	84.725	84.000	83.150	84.000	84.725	84.250	86.375	84.250
87.5	36.837	33.250	30.413	32.900	34.188	32.900	30.413	33.250	36.837	33.250
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	12.188	13.375	13.988	14.450	13.838	14.450	13.988	13.375	12.188	13.375
95.0	25.813	26.375	27.475	27.325	27.387	27.325	27.475	26.375	25.813	26.375
97.5	42.862	42.663	43.337	43.075	44.413	43.075	43.337	42.663	42.862	42.663
100.0	62.325	62.462	64.200	63.975	62.950	63.975	64.200	62.462	62.325	62.462
102.5	84.875	84.737	86.575	85.300	85.375	85.300	86.575	84.737	84.875	84.737
105.0	108.750	108.275	110.325	109.263	109.325	109.263	110.325	108.275	108.750	108.275
107.5	132.512	134.488	134.925	135.300	134.512	135.300	134.925	134.488	132.512	134.488
110.0	160.650	160.662	161.313	162.250	161.125	162.250	161.313	160.662	160.650	160.662
112.5	187.463	187.875	189.113	189.325	188.000	189.325	189.113	187.875	187.463	187.875
115.0	214.938	215.225	216.262	216.738	216.012	216.738	216.262	215.225	214.938	215.225
117.5	242.550	243.925	243.713	245.037	244.425	245.037	243.713	243.925	242.550	243.925
120.0	271.163	273.063	273.225	274.188	272.625	274.188	273.225	273.063	271.163	273.063
122.5	303.538	301.738	303.063	302.262	301.875	302.262	303.063	301.738	303.538	301.738
125.0	332.350	332.337	333.275	333.675	332.637	333.675	333.275	332.337	332.350	332.337
127.5	361.075	362.038	363.875	363.337	361.900	363.337	363.875	362.038	361.075	362.038
130.0	390.875	393.087	394.325	393.900	393.250	393.900	394.325	393.087	390.875	393.087
132.5	422.337	423.525	425.262	424.850	423.875	424.850	425.262	423.525	422.337	423.525

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CANDELA TABULATION - (Cont.)

135.0	452.712	454.175	456.175	455.075	455.613	455.075	456.175	454.175	452.712	454.175
137.5	485.100	485.613	486.725	485.212	485.813	485.212	486.725	485.613	485.100	485.613
140.0	515.413	516.225	518.663	515.675	517.063	515.675	518.663	516.225	515.413	516.225
142.5	544.538	545.837	548.400	544.950	545.462	544.950	548.400	545.837	544.538	545.837
145.0	574.000	573.862	577.438	574.112	574.150	574.112	577.438	573.862	574.000	573.862
147.5	602.650	601.987	604.038	601.575	602.125	601.575	604.038	601.987	602.650	601.987
150.0	628.825	628.888	631.800	628.450	628.250	628.450	631.800	628.888	628.825	628.888
152.5	653.288	652.688	655.563	653.175	653.000	653.175	655.563	652.688	653.288	652.688
155.0	675.725	675.775	678.375	676.850	676.425	676.850	678.375	675.775	675.725	675.775
157.5	696.850	696.913	698.612	697.712	697.675	697.712	698.612	696.913	696.850	696.913
160.0	717.375	716.112	718.063	716.125	717.100	716.125	718.063	716.112	717.375	716.112
162.5	733.700	731.938	735.600	733.813	732.800	733.813	735.600	731.938	733.700	731.938
165.0	747.775	745.925	749.237	747.063	747.150	747.063	749.237	745.925	747.775	745.925
167.5	759.938	759.375	762.837	759.337	760.175	759.337	762.837	759.375	759.938	759.375
170.0	772.150	769.663	772.063	770.163	770.563	770.163	772.063	769.663	772.150	769.663
172.5	780.638	778.450	780.350	778.638	779.237	778.638	780.350	778.450	780.638	778.450
175.0	784.188	784.612	786.388	785.125	785.650	785.125	786.388	784.612	784.188	784.612
177.5	788.550	788.175	790.538	788.663	788.800	788.663	790.538	788.175	788.550	788.175
180.0	790.450	790.450	790.450	790.450	790.450	790.450	790.450	790.450	790.450	790.450

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	1639.950	1639.950	1639.950	1639.950	1639.950	1639.950	1639.950
2.5	1639.050	1637.763	1636.875	1637.763	1639.050	1637.550	1635.912
5.0	1632.513	1631.037	1630.438	1631.037	1632.513	1631.000	1631.675
7.5	1622.800	1620.525	1620.250	1620.525	1622.800	1621.100	1619.850
10.0	1607.713	1606.662	1604.838	1606.662	1607.713	1606.675	1605.313
12.5	1589.563	1588.025	1587.737	1588.025	1589.563	1589.000	1588.850
15.0	1567.963	1566.875	1566.200	1566.875	1567.963	1567.638	1568.237
17.5	1543.775	1542.625	1541.987	1542.625	1543.775	1543.150	1542.675
20.0	1515.800	1514.162	1512.075	1514.162	1515.800	1515.100	1514.475
22.5	1483.287	1481.563	1480.412	1481.563	1483.287	1484.037	1482.838
25.0	1449.350	1447.888	1446.500	1447.888	1449.350	1449.825	1450.438
27.5	1412.675	1410.763	1408.100	1410.763	1412.675	1412.013	1414.037
30.0	1372.088	1369.787	1367.300	1369.787	1372.088	1373.263	1374.050
32.5	1329.138	1327.388	1325.600	1327.388	1329.138	1331.050	1332.162
35.0	1283.700	1281.000	1279.475	1281.000	1283.700	1284.175	1286.450
37.5	1233.888	1231.950	1229.987	1231.950	1233.888	1236.463	1238.412
40.0	1181.925	1180.650	1179.125	1180.650	1181.925	1184.750	1185.950
42.5	1129.225	1127.638	1125.862	1127.638	1129.225	1131.563	1132.925
45.0	1074.213	1072.050	1070.975	1072.050	1074.213	1077.412	1078.825
47.5	1016.025	1014.587	1014.888	1014.587	1016.025	1020.563	1023.788
50.0	956.813	955.987	955.200	955.987	956.813	961.337	964.250
52.5	896.425	896.225	895.837	896.225	896.425	899.500	903.163
55.0	834.862	833.650	833.325	833.650	834.862	838.075	840.025
57.5	772.112	771.225	771.888	771.225	772.112	776.025	779.350
60.0	707.837	707.550	709.587	707.550	707.837	713.212	717.175
62.5	643.875	643.163	645.775	643.163	643.875	647.438	652.938
65.0	578.425	579.675	581.400	579.675	578.425	581.612	586.800
67.5	513.475	513.212	516.675	513.212	513.475	515.638	521.237
70.0	448.387	447.762	451.050	447.762	448.387	451.262	455.712
72.5	383.250	383.550	383.250	383.550	383.250	385.212	389.200
75.0	320.900	320.163	321.438	320.163	320.900	322.175	326.350
77.5	258.962	257.212	258.887	257.212	258.962	260.212	264.063
80.0	199.200	198.787	197.700	198.787	199.200	201.575	203.912

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CANDELA TABULATION - (Cont.)

82.5	141.000	139.688	140.675	139.688	141.000	141.988	144.225
85.0	84.725	84.000	83.150	84.000	84.725	84.250	86.375
87.5	30.413	32.900	34.188	32.900	30.413	33.250	36.837
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	13.988	14.450	13.838	14.450	13.988	13.375	12.188
95.0	27.475	27.325	27.387	27.325	27.475	26.375	25.813
97.5	43.337	43.075	44.413	43.075	43.337	42.663	42.862
100.0	64.200	63.975	62.950	63.975	64.200	62.462	62.325
102.5	86.575	85.300	85.375	85.300	86.575	84.737	84.875
105.0	110.325	109.263	109.325	109.263	110.325	108.275	108.750
107.5	134.925	135.300	134.512	135.300	134.925	134.488	132.512
110.0	161.313	162.250	161.125	162.250	161.313	160.662	160.650
112.5	189.113	189.325	188.000	189.325	189.113	187.875	187.463
115.0	216.262	216.738	216.012	216.738	216.262	215.225	214.938
117.5	243.713	245.037	244.425	245.037	243.713	243.925	242.550
120.0	273.225	274.188	272.625	274.188	273.225	273.063	271.163
122.5	303.063	302.262	301.875	302.262	303.063	301.738	303.538
125.0	333.275	333.675	332.637	333.675	333.275	332.337	332.350
127.5	363.875	363.337	361.900	363.337	363.875	362.038	361.075
130.0	394.325	393.900	393.250	393.900	394.325	393.087	390.875
132.5	425.262	424.850	423.875	424.850	425.262	423.525	422.337
135.0	456.175	455.075	455.613	455.075	456.175	454.175	452.712
137.5	486.725	485.212	485.813	485.212	486.725	485.613	485.100
140.0	518.663	515.675	517.063	515.675	518.663	516.225	515.413
142.5	548.400	544.950	545.462	544.950	548.400	545.837	544.538
145.0	577.438	574.112	574.150	574.112	577.438	573.862	574.000
147.5	604.038	601.575	602.125	601.575	604.038	601.987	602.650
150.0	631.800	628.450	628.250	628.450	631.800	628.888	628.825
152.5	655.563	653.175	653.000	653.175	655.563	652.688	653.288
155.0	678.375	676.850	676.425	676.850	678.375	675.775	675.725
157.5	698.612	697.712	697.675	697.712	698.612	696.913	696.850
160.0	718.063	716.125	717.100	716.125	718.063	716.112	717.375
162.5	735.600	733.813	732.800	733.813	735.600	731.938	733.700
165.0	749.237	747.063	747.150	747.063	749.237	745.925	747.775
167.5	762.837	759.337	760.175	759.337	762.837	759.375	759.938
170.0	772.063	770.163	770.563	770.163	772.063	769.663	772.150
172.5	780.350	778.638	779.237	778.638	780.350	778.450	780.638
175.0	786.388	785.125	785.650	785.125	786.388	784.612	784.188
177.5	790.538	788.663	788.800	788.663	790.538	788.175	788.550
180.0	790.450	790.450	790.450	790.450	790.450	790.450	790.450

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	597.22	N.A.	9.00
0-30	1264.84	N.A.	19.10
0-40	2067.11	N.A.	31.20
0-60	3643.21	N.A.	55.00
0-80	4558.38	N.A.	68.80
0-90	4655.97	N.A.	70.30
10-90	4501.03	N.A.	68.00
20-40	1469.89	N.A.	22.20
20-50	2298.55	N.A.	34.70
40-70	2150.81	N.A.	32.50
60-80	915.17	N.A.	13.80
70-80	340.46	N.A.	5.10
80-90	97.59	N.A.	1.50
90-110	147.81	N.A.	2.20
90-120	361.92	N.A.	5.50
90-130	659.49	N.A.	10.00
90-150	1369.81	N.A.	20.70
90-180	1966.48	N.A.	29.70
110-180	1818.67	N.A.	27.50
0-180	6622.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.94
10-20	442.28
20-30	667.62
30-40	802.27
40-50	828.65
50-60	747.44
60-70	574.71
70-80	340.46
80-90	97.59
90-100	31.42
100-110	116.39
110-120	214.11
120-130	297.56
130-140	351.04
140-150	359.28
150-160	311.38
160-170	210.78
170-180	74.51

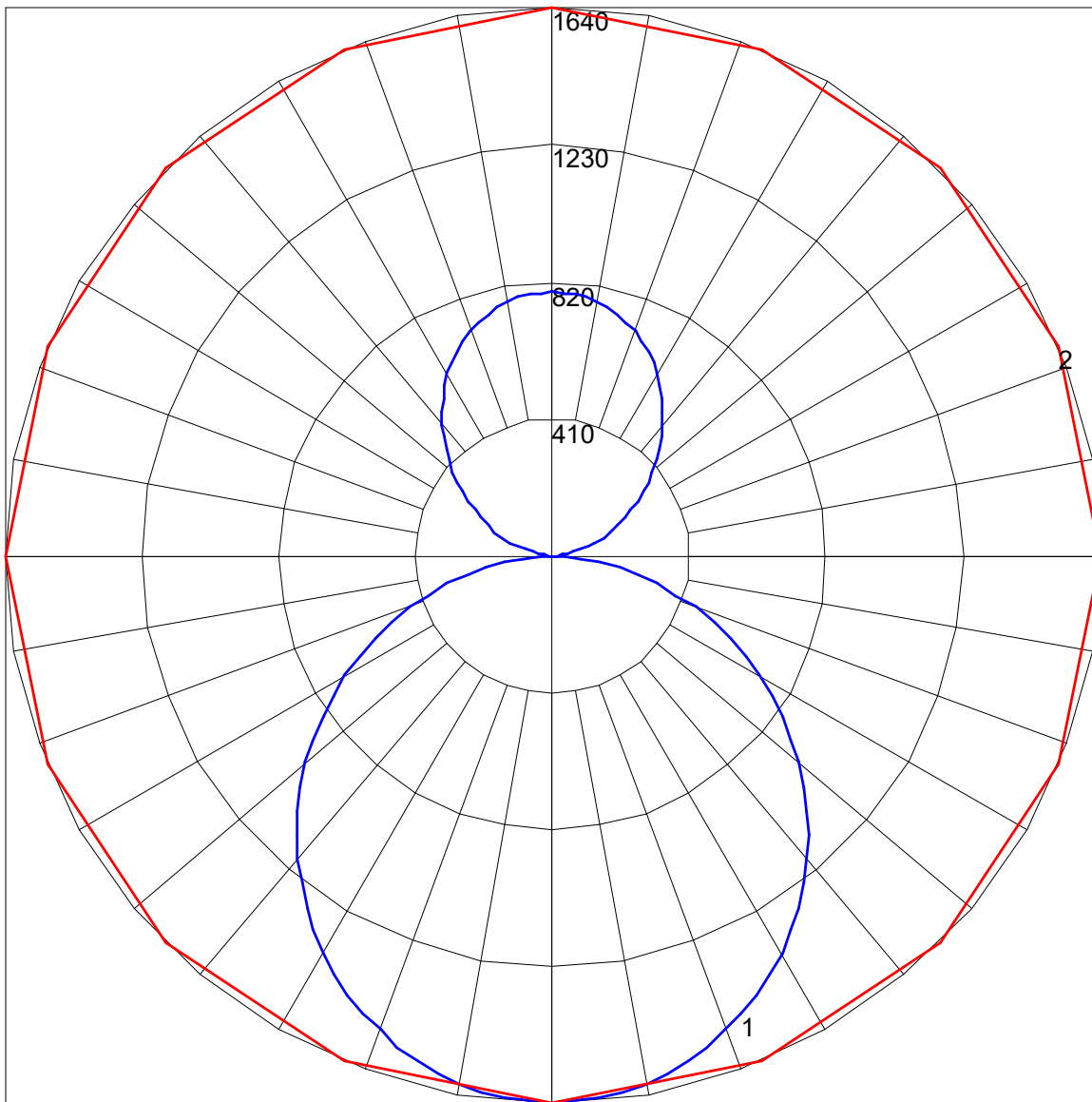
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	80	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 = 1639.95 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.)