



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QDF-22-LED35-HO-FWA-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] QDF-22-LED35-HO-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	5215
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	88
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	1801	1786	1790
55	1750	1728	1734
65	1673	1645	1653
75	1566	1528	1548
85	1444	1384	1407

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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	1788.379	1788.379	1788.379	1788.379	1788.379	1788.379	1788.379	1788.379	1788.379	1788.379
2.5	1792.403	1785.222	1785.824	1784.466	1790.511	1784.466	1785.824	1785.222	1792.403	1785.222
5.0	1786.676	1779.383	1779.503	1778.351	1784.629	1778.351	1779.503	1779.383	1786.676	1779.383
7.5	1778.084	1770.921	1769.020	1768.212	1775.728	1768.212	1769.020	1770.921	1778.084	1770.921
10.0	1763.318	1756.455	1756.103	1754.735	1760.291	1754.735	1756.103	1756.455	1763.318	1756.455
12.5	1745.404	1738.602	1737.518	1737.432	1742.283	1737.432	1737.518	1738.602	1745.404	1738.602
15.0	1724.111	1716.147	1715.287	1714.436	1720.662	1714.436	1715.287	1716.147	1724.111	1716.147
17.5	1698.749	1691.070	1690.665	1688.146	1694.054	1688.146	1690.665	1691.070	1698.749	1691.070
20.0	1670.344	1662.277	1660.841	1660.290	1664.865	1660.290	1660.841	1662.277	1670.344	1662.277
22.5	1637.973	1630.749	1628.513	1626.810	1631.979	1626.810	1628.513	1630.749	1637.973	1630.749
25.0	1601.724	1594.130	1592.264	1590.699	1595.128	1590.699	1592.264	1594.130	1601.724	1594.130
27.5	1562.422	1556.153	1553.091	1551.234	1556.282	1551.234	1553.091	1556.153	1562.422	1556.153
30.0	1518.184	1513.583	1509.145	1508.053	1512.903	1508.053	1509.145	1513.583	1518.184	1513.583
32.5	1472.690	1468.089	1464.116	1462.249	1467.452	1462.249	1464.116	1468.089	1472.690	1468.089
35.0	1425.519	1419.361	1415.397	1414.210	1417.658	1414.210	1415.397	1419.361	1425.519	1419.361
37.5	1375.329	1368.088	1363.633	1362.808	1365.336	1362.808	1363.633	1368.088	1375.329	1368.088
40.0	1320.401	1314.338	1309.187	1308.137	1312.059	1308.137	1309.187	1314.338	1320.401	1314.338
42.5	1262.815	1258.275	1251.601	1251.171	1255.763	1251.171	1251.601	1258.275	1262.815	1258.275
45.0	1203.389	1198.324	1193.044	1191.668	1195.864	1191.668	1193.044	1198.324	1203.389	1198.324
47.5	1142.665	1137.565	1132.740	1130.625	1135.346	1130.625	1132.740	1137.565	1142.665	1137.565
50.0	1080.392	1074.140	1068.877	1066.899	1070.657	1066.899	1068.877	1074.140	1080.392	1074.140
52.5	1016.253	1009.279	1004.205	1002.330	1006.226	1002.330	1004.205	1009.279	1016.253	1009.279
55.0	948.365	942.483	936.488	934.545	939.438	934.545	936.488	942.483	948.365	942.483
57.5	879.187	874.749	867.207	866.562	871.954	866.562	867.207	874.749	879.187	874.749
60.0	809.165	804.642	798.286	797.633	801.434	797.633	798.286	804.642	809.165	804.642
62.5	739.385	733.451	727.405	727.113	730.346	727.113	727.405	733.451	739.385	733.451
65.0	668.134	661.349	656.988	654.744	659.844	654.744	656.988	661.349	668.134	661.349
67.5	597.287	590.149	585.634	583.708	589.659	583.708	585.634	590.149	597.287	590.149
70.0	523.946	518.726	513.738	512.680	518.219	512.680	513.738	518.726	523.946	518.726
72.5	452.953	447.888	442.762	441.447	448.206	441.447	442.762	447.888	452.953	447.888
75.0	383.035	376.938	373.747	372.638	378.641	372.638	373.747	376.938	383.035	376.938
77.5	314.588	308.860	305.188	305.111	309.652	305.111	305.188	308.860	314.588	308.860
80.0	246.373	241.600	238.908	238.495	243.389	238.495	238.908	241.600	246.373	241.600
82.5	180.376	176.893	175.466	174.890	179.104	174.890	175.466	176.893	180.376	176.893
85.0	118.869	115.395	113.984	113.950	115.894	113.950	113.984	115.395	118.869	115.395
87.5	57.336	54.756	55.031	55.186	56.923	55.186	55.031	54.756	57.336	54.756
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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PHOTOMETRIC FILENAME : QDF-22-LED35-HO-FWA-D1.IES

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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. Angles **Horizontal Angles**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	1788.379	1788.379	1788.379	1788.379	1788.379	1788.379	1788.379
2.5	1785.824	1784.466	1790.511	1784.466	1785.824	1785.222	1792.403
5.0	1779.503	1778.351	1784.629	1778.351	1779.503	1779.383	1786.676
7.5	1769.020	1768.212	1775.728	1768.212	1769.020	1770.921	1778.084
10.0	1756.103	1754.735	1760.291	1754.735	1756.103	1756.455	1763.318
12.5	1737.518	1737.432	1742.283	1737.432	1737.518	1738.602	1745.404
15.0	1715.287	1714.436	1720.662	1714.436	1715.287	1716.147	1724.111
17.5	1690.665	1688.146	1694.054	1688.146	1690.665	1691.070	1698.749
20.0	1660.841	1660.290	1664.865	1660.290	1660.841	1662.277	1670.344
22.5	1628.513	1626.810	1631.979	1626.810	1628.513	1630.749	1637.973
25.0	1592.264	1590.699	1595.128	1590.699	1592.264	1594.130	1601.724
27.5	1553.091	1551.234	1556.282	1551.234	1553.091	1556.153	1562.422
30.0	1509.145	1508.053	1512.903	1508.053	1509.145	1513.583	1518.184
32.5	1464.116	1462.249	1467.452	1462.249	1464.116	1468.089	1472.690
35.0	1415.397	1414.210	1417.658	1414.210	1415.397	1419.361	1425.519
37.5	1363.633	1362.808	1365.336	1362.808	1363.633	1368.088	1375.329
40.0	1309.187	1308.137	1312.059	1308.137	1309.187	1314.338	1320.401
42.5	1251.601	1251.171	1255.763	1251.171	1251.601	1258.275	1262.815
45.0	1193.044	1191.668	1195.864	1191.668	1193.044	1198.324	1203.389
47.5	1132.740	1130.625	1135.346	1130.625	1132.740	1137.565	1142.665
50.0	1068.877	1066.899	1070.657	1066.899	1068.877	1074.140	1080.392
52.5	1004.205	1002.330	1006.226	1002.330	1004.205	1009.279	1016.253
55.0	936.488	934.545	939.438	934.545	936.488	942.483	948.365
57.5	867.207	866.562	871.954	866.562	867.207	874.749	879.187
60.0	798.286	797.633	801.434	797.633	798.286	804.642	809.165
62.5	727.405	727.113	730.346	727.113	727.405	733.451	739.385
65.0	656.988	654.744	659.844	654.744	656.988	661.349	668.134
67.5	585.634	583.708	589.659	583.708	585.634	590.149	597.287
70.0	513.738	512.680	518.219	512.680	513.738	518.726	523.946
72.5	442.762	441.447	448.206	441.447	442.762	447.888	452.953
75.0	373.747	372.638	378.641	372.638	373.747	376.938	383.035
77.5	305.188	305.111	309.652	305.111	305.188	308.860	314.588
80.0	238.908	238.495	243.389	238.495	238.908	241.600	246.373

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CANDELA TABULATION - (Cont.)

82.5	175.466	174.890	179.104	174.890	175.466	176.893	180.376
85.0	113.984	113.950	115.894	113.950	113.984	115.395	118.869
87.5	55.031	55.186	56.923	55.186	55.031	54.756	57.336
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	653.88	N.A.	12.50
0-30	1388.52	N.A.	26.60
0-40	2275.25	N.A.	43.60
0-60	4037.24	N.A.	77.40
0-80	5087.72	N.A.	97.60
0-90	5215.04	N.A.	100.00
10-90	5045.79	N.A.	96.80
20-40	1621.37	N.A.	31.10
20-50	2543.79	N.A.	48.80
40-70	2414.63	N.A.	46.30
60-80	1050.48	N.A.	20.10
70-80	397.84	N.A.	7.60
80-90	127.32	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	5215.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	169.25
10-20	484.63
20-30	734.64
30-40	886.73
40-50	922.42
50-60	839.57
60-70	652.64
70-80	397.84
80-90	127.32
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

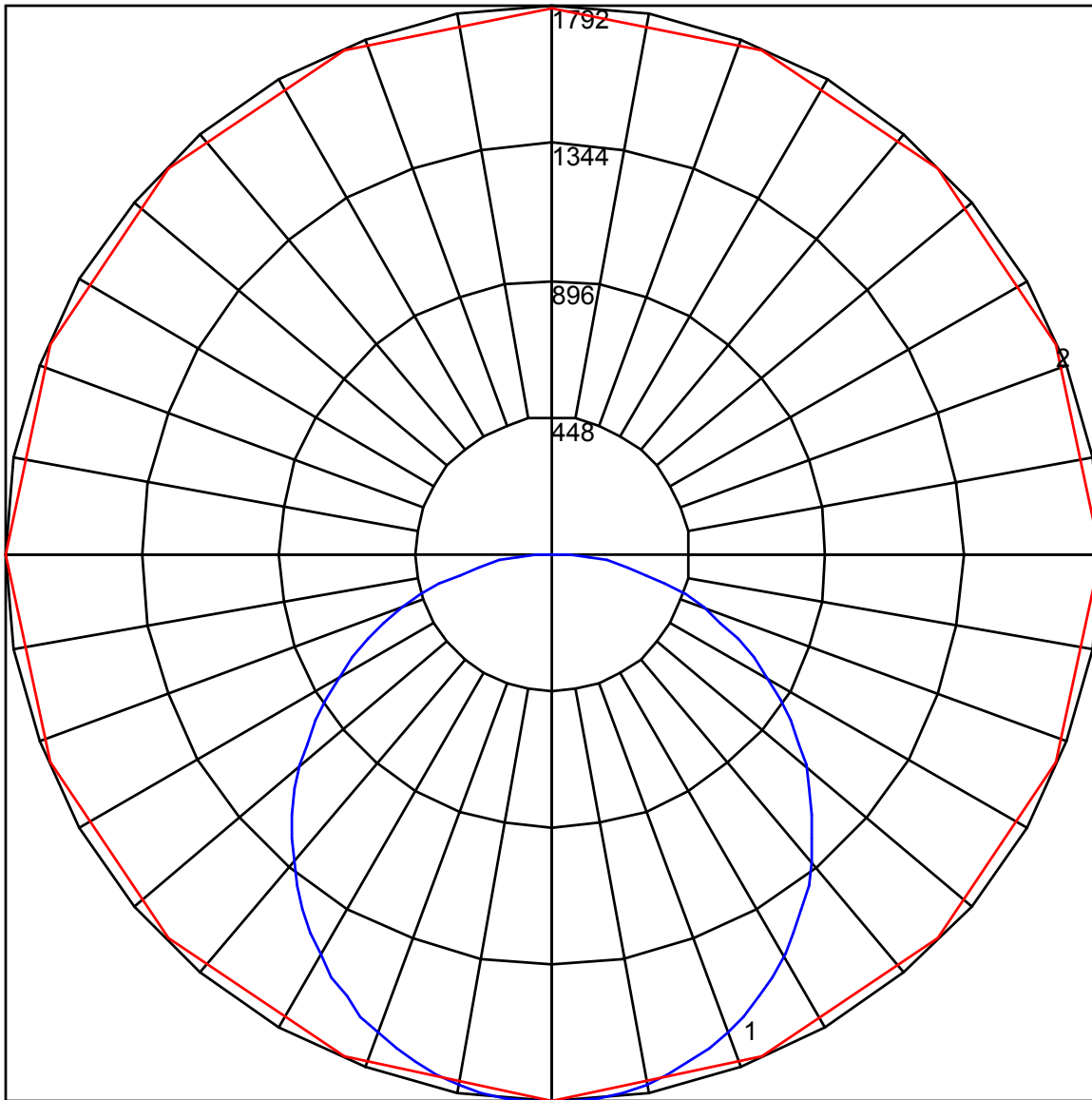
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	80	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 = 1792.403 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.)