



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QDF-33-LED35-LO-FWA-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

[IESNA:LM-63-2002

[TEST] QDF-33-LED35-LO-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	2971
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	45
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	1026	1017	1020
55	997	985	988
65	953	937	942
75	892	871	882
85	822	789	802

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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	1018.960	1018.960	1018.960	1018.960	1018.960	1018.960	1018.960	1018.960	1018.960	1018.960
2.5	1021.253	1017.162	1017.505	1016.730	1020.175	1016.730	1017.505	1017.162	1021.253	1017.162
5.0	1017.990	1013.835	1013.903	1013.247	1016.824	1013.247	1013.903	1013.835	1017.990	1013.835
7.5	1013.095	1009.013	1007.930	1007.469	1011.752	1007.469	1007.930	1009.013	1013.095	1009.013
10.0	1004.681	1000.771	1000.570	999.791	1002.957	999.791	1000.570	1000.771	1004.681	1000.771
12.5	994.475	990.599	989.981	989.932	992.696	989.932	989.981	990.599	994.475	990.599
15.0	982.342	977.805	977.315	976.830	980.377	976.830	977.315	977.805	982.342	977.805
17.5	967.892	963.516	963.286	961.850	965.217	961.850	963.286	963.516	967.892	963.516
20.0	951.707	947.111	946.293	945.979	948.586	945.979	946.293	947.111	951.707	947.111
22.5	933.264	929.148	927.874	926.904	929.849	926.904	927.874	929.148	933.264	929.148
25.0	912.610	908.284	907.220	906.329	908.852	906.329	907.220	908.284	912.610	908.284
27.5	890.217	886.645	884.901	883.842	886.719	883.842	884.901	886.645	890.217	886.645
30.0	865.012	862.390	859.862	859.240	862.003	859.240	859.862	862.390	865.012	862.390
32.5	839.091	836.469	834.205	833.142	836.107	833.142	834.205	836.469	839.091	836.469
35.0	812.214	808.706	806.447	805.771	807.736	805.771	806.447	808.706	812.214	808.706
37.5	783.618	779.492	776.954	776.483	777.924	776.483	776.954	779.492	783.618	779.492
40.0	752.322	748.867	745.932	745.334	747.569	745.334	745.932	748.867	752.322	748.867
42.5	719.511	716.924	713.122	712.877	715.493	712.877	713.122	716.924	719.511	716.924
45.0	685.652	682.766	679.757	678.973	681.365	678.973	679.757	682.766	685.652	682.766
47.5	651.053	648.148	645.399	644.193	646.883	644.193	645.399	648.148	651.053	648.148
50.0	615.572	612.010	609.011	607.884	610.026	607.884	609.011	612.010	615.572	612.010
52.5	579.028	575.054	572.163	571.095	573.315	571.095	572.163	575.054	579.028	575.054
55.0	540.348	536.996	533.581	532.473	535.261	532.473	533.581	536.996	540.348	536.996
57.5	500.932	498.404	494.106	493.739	496.811	493.739	494.106	498.404	500.932	498.404
60.0	461.036	458.459	454.838	454.465	456.631	454.465	454.838	458.459	461.036	458.459
62.5	421.278	417.897	414.452	414.285	416.128	414.285	414.452	417.897	421.278	417.897
65.0	380.681	376.815	374.331	373.052	375.957	373.052	374.331	376.815	380.681	376.815
67.5	340.315	336.248	333.675	332.578	335.969	332.578	333.675	336.248	340.315	336.248
70.0	298.528	295.553	292.711	292.109	295.264	292.109	292.711	295.553	298.528	295.553
72.5	258.078	255.192	252.272	251.522	255.373	251.522	252.272	255.192	258.078	255.192
75.0	218.241	214.767	212.949	212.317	215.737	212.317	212.949	214.767	218.241	214.767
77.5	179.242	175.979	173.886	173.842	176.429	173.842	173.886	175.979	179.242	175.979
80.0	140.375	137.656	136.122	135.887	138.675	135.887	136.122	137.656	140.375	137.656
82.5	102.773	100.788	99.975	99.646	102.047	99.646	99.975	100.788	102.773	100.788
85.0	67.728	65.748	64.945	64.925	66.032	64.925	64.945	65.748	67.728	65.748
87.5	32.668	31.198	31.355	31.443	32.433	31.443	31.355	31.198	32.668	31.198
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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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. Horizontal Angles

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	1018.960	1018.960	1018.960	1018.960	1018.960	1018.960	1018.960
2.5	1017.505	1016.730	1020.175	1016.730	1017.505	1017.162	1021.253
5.0	1013.903	1013.247	1016.824	1013.247	1013.903	1013.835	1017.990
7.5	1007.930	1007.469	1011.752	1007.469	1007.930	1009.013	1013.095
10.0	1000.570	999.791	1002.957	999.791	1000.570	1000.771	1004.681
12.5	989.981	989.932	992.696	989.932	989.981	990.599	994.475
15.0	977.315	976.830	980.377	976.830	977.315	977.805	982.342
17.5	963.286	961.850	965.217	961.850	963.286	963.516	967.892
20.0	946.293	945.979	948.586	945.979	946.293	947.111	951.707
22.5	927.874	926.904	929.849	926.904	927.874	929.148	933.264
25.0	907.220	906.329	908.852	906.329	907.220	908.284	912.610
27.5	884.901	883.842	886.719	883.842	884.901	886.645	890.217
30.0	859.862	859.240	862.003	859.240	859.862	862.390	865.012
32.5	834.205	833.142	836.107	833.142	834.205	836.469	839.091
35.0	806.447	805.771	807.736	805.771	806.447	808.706	812.214
37.5	776.954	776.483	777.924	776.483	776.954	779.492	783.618
40.0	745.932	745.334	747.569	745.334	745.932	748.867	752.322
42.5	713.122	712.877	715.493	712.877	713.122	716.924	719.511
45.0	679.757	678.973	681.365	678.973	679.757	682.766	685.652
47.5	645.399	644.193	646.883	644.193	645.399	648.148	651.053
50.0	609.011	607.884	610.026	607.884	609.011	612.010	615.572
52.5	572.163	571.095	573.315	571.095	572.163	575.054	579.028
55.0	533.581	532.473	535.261	532.473	533.581	536.996	540.348
57.5	494.106	493.739	496.811	493.739	494.106	498.404	500.932
60.0	454.838	454.465	456.631	454.465	454.838	458.459	461.036
62.5	414.452	414.285	416.128	414.285	414.452	417.897	421.278
65.0	374.331	373.052	375.957	373.052	374.331	376.815	380.681
67.5	333.675	332.578	335.969	332.578	333.675	336.248	340.315
70.0	292.711	292.109	295.264	292.109	292.711	295.553	298.528
72.5	252.272	251.522	255.373	251.522	252.272	255.192	258.078
75.0	212.949	212.317	215.737	212.317	212.949	214.767	218.241
77.5	173.886	173.842	176.429	173.842	173.886	175.979	179.242
80.0	136.122	135.887	138.675	135.887	136.122	137.656	140.375

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CANDELA TABULATION - (Cont.)

82.5	99.975	99.646	102.047	99.646	99.975	100.788	102.773
85.0	64.945	64.925	66.032	64.925	64.945	65.748	67.728
87.5	31.355	31.443	32.433	31.443	31.355	31.198	32.668
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	372.56	N.A.	12.50
0-30	791.13	N.A.	26.60
0-40	1296.37	N.A.	43.60
0-60	2300.29	N.A.	77.40
0-80	2898.82	N.A.	97.60
0-90	2971.36	N.A.	100.00
10-90	2874.93	N.A.	96.80
20-40	923.80	N.A.	31.10
20-50	1449.37	N.A.	48.80
40-70	1375.78	N.A.	46.30
60-80	598.53	N.A.	20.10
70-80	226.68	N.A.	7.60
80-90	72.54	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	2971.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	96.43
10-20	276.13
20-30	418.57
30-40	505.23
40-50	525.56
50-60	478.36
60-70	371.85
70-80	226.68
80-90	72.54
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

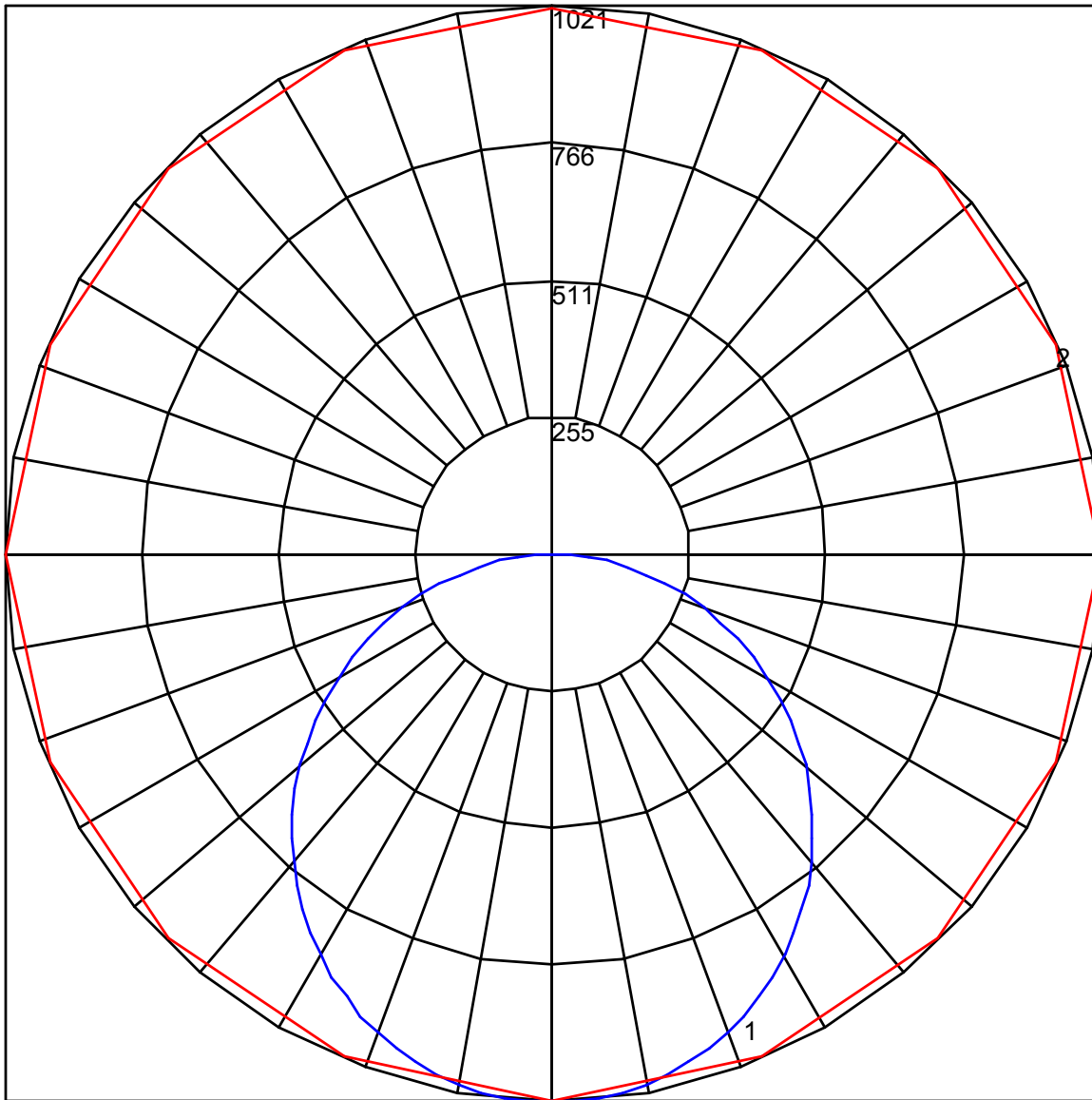
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1021.253 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.)