



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QDF-33-LED35-LO-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-33-LED35-LO-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	3497
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	54
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	845	801	839
55	771	717	765
65	675	608	669
75	524	451	516
85	242	189	233

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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	865.894	865.894	865.894	865.894	865.894	865.894	865.894	865.894	865.894	865.894
2.5	863.762	864.626	865.418	864.739	864.270	864.739	865.418	864.626	863.762	864.626
5.0	861.524	861.168	861.967	861.188	860.871	861.188	861.967	861.168	861.524	861.168
7.5	855.281	855.941	856.838	855.637	855.492	855.637	856.838	855.941	855.281	855.941
10.0	847.605	848.324	848.872	848.318	847.354	848.318	848.872	848.324	847.605	848.324
12.5	838.913	838.992	839.289	838.477	838.325	838.477	839.289	838.992	838.913	838.992
15.0	828.029	827.713	827.884	827.310	826.954	827.310	827.884	827.713	828.029	827.713
17.5	814.532	814.783	815.113	814.506	814.169	814.506	815.113	814.783	814.532	814.783
20.0	799.643	799.973	800.342	799.478	798.376	799.478	800.342	799.973	799.643	799.973
22.5	782.938	783.572	783.176	782.265	781.658	782.265	783.176	783.572	782.938	783.572
25.0	765.831	765.508	765.257	764.485	763.752	764.485	765.257	765.508	765.831	765.508
27.5	746.612	745.543	745.892	744.883	743.477	744.883	745.892	745.543	746.612	745.543
30.0	725.498	725.083	724.462	723.248	721.934	723.248	724.462	725.083	725.498	725.083
32.5	703.382	702.794	701.785	700.861	699.917	700.861	701.785	702.794	703.382	702.794
35.0	679.246	678.044	677.794	676.368	675.563	676.368	677.794	678.044	679.246	678.044
37.5	653.882	652.852	651.493	650.470	649.433	650.470	651.493	652.852	653.882	652.852
40.0	626.182	625.548	624.056	623.383	622.578	623.383	624.056	625.548	626.182	625.548
42.5	598.184	597.465	596.231	595.393	594.455	595.393	596.231	597.465	598.184	597.465
45.0	569.620	568.874	567.184	566.042	565.475	566.042	567.184	568.874	569.620	568.874
47.5	540.560	538.857	536.461	535.702	535.861	535.702	536.461	538.857	540.560	538.857
50.0	509.124	507.586	505.197	504.761	504.346	504.761	505.197	507.586	509.124	507.586
52.5	476.870	474.936	473.312	473.207	473.002	473.207	473.312	474.936	476.870	474.936
55.0	443.533	442.504	440.807	440.167	439.996	440.167	440.807	442.504	443.533	442.504
57.5	411.497	409.741	407.675	407.207	407.557	407.207	407.675	409.741	411.497	409.741
60.0	378.668	376.576	373.738	373.586	374.662	373.586	373.738	376.576	378.668	376.576
62.5	344.751	341.847	339.966	339.590	340.969	339.590	339.966	341.847	344.751	341.847
65.0	309.830	307.091	305.408	306.068	306.979	306.068	305.408	307.091	309.830	307.091
67.5	275.213	272.257	271.115	270.976	272.804	270.976	271.115	272.257	275.213	272.257
70.0	240.616	238.267	236.749	236.419	238.154	236.419	236.749	238.267	240.616	238.267
72.5	205.498	203.392	202.356	202.514	202.356	202.514	202.356	203.392	205.498	203.392
75.0	172.313	170.108	169.435	169.046	169.719	169.046	169.435	170.108	172.313	170.108
77.5	139.425	137.392	136.732	135.808	136.693	135.808	136.732	137.392	139.425	137.392
80.0	107.666	106.432	105.178	104.960	104.386	104.960	105.178	106.432	107.666	106.432
82.5	76.151	74.969	74.448	73.755	74.276	73.755	74.448	74.969	76.151	74.969
85.0	45.606	44.484	44.735	44.352	43.903	44.352	44.735	44.484	45.606	44.484
87.5	19.450	17.556	16.058	17.371	18.051	17.371	16.058	17.556	19.450	17.556
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	6.435	7.062	7.385	7.630	7.306	7.630	7.385	7.062	6.435	7.062
95.0	13.629	13.926	14.507	14.428	14.461	14.428	14.507	13.926	13.629	13.926
97.5	22.631	22.526	22.882	22.744	23.450	22.744	22.882	22.526	22.631	22.526
100.0	32.908	32.980	33.898	33.779	33.238	33.779	33.898	32.980	32.908	32.980
102.5	44.814	44.741	45.712	45.038	45.078	45.038	45.712	44.741	44.814	44.741
105.0	57.420	57.169	58.252	57.691	57.724	57.691	58.252	57.169	57.420	57.169
107.5	69.967	71.009	71.240	71.438	71.023	71.438	71.240	71.009	69.967	71.009
110.0	84.823	84.830	85.173	85.668	85.074	85.668	85.173	84.830	84.823	84.830
112.5	98.980	99.198	99.851	99.964	99.264	99.964	99.851	99.198	98.980	99.198
115.0	113.487	113.639	114.187	114.437	114.055	114.437	114.187	113.639	113.487	113.639
117.5	128.066	128.792	128.680	129.380	129.056	129.380	128.680	128.792	128.066	128.792
120.0	143.174	144.177	144.263	144.771	143.946	144.771	144.263	144.177	143.174	144.177
122.5	160.268	159.317	160.017	159.595	159.390	159.595	160.017	159.317	160.268	159.317
125.0	175.481	175.474	175.969	176.180	175.633	176.180	175.969	175.474	175.481	175.474
127.5	190.648	191.156	192.126	191.842	191.083	191.842	192.126	191.156	190.648	191.156
130.0	206.382	207.550	208.204	207.979	207.636	207.979	208.204	207.550	206.382	207.550
132.5	222.994	223.621	224.539	224.321	223.806	224.321	224.539	223.621	222.994	223.621

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135.0	239.032	239.804	240.860	240.280	240.563	240.280	240.860	239.804	239.032	239.804
137.5	256.133	256.403	256.991	256.192	256.509	256.192	256.991	256.403	256.133	256.403
140.0	272.138	272.567	273.854	272.276	273.009	272.276	273.854	272.567	272.138	272.567
142.5	287.516	288.202	289.555	287.734	288.004	287.734	289.555	288.202	287.516	288.202
145.0	303.072	302.999	304.887	303.131	303.151	303.131	304.887	302.999	303.072	302.999
147.5	318.199	317.849	318.932	317.632	317.922	317.632	318.932	317.849	318.199	317.849
150.0	332.020	332.053	333.590	331.822	331.716	331.822	333.590	332.053	332.020	332.053
152.5	344.936	344.619	346.137	344.876	344.784	344.876	346.137	344.619	344.936	344.619
155.0	356.783	356.809	358.182	357.377	357.152	357.377	358.182	356.809	356.783	356.809
157.5	367.937	367.970	368.867	368.392	368.372	368.392	368.867	367.970	367.937	367.970
160.0	378.774	378.107	379.137	378.114	378.629	378.114	379.137	378.107	378.774	378.107
162.5	387.394	386.463	388.397	387.453	386.918	387.453	388.397	386.463	387.394	386.463
165.0	394.825	393.848	395.597	394.449	394.495	394.449	395.597	393.848	394.825	393.848
167.5	401.247	400.950	402.778	400.930	401.372	400.930	402.778	400.950	401.247	400.950
170.0	407.695	406.382	407.649	406.646	406.857	406.646	407.649	406.382	407.695	406.382
172.5	412.177	411.022	412.025	411.121	411.437	411.121	412.025	411.022	412.177	411.022
175.0	414.051	414.275	415.213	414.546	414.823	414.546	415.213	414.275	414.051	414.275
177.5	416.354	416.156	417.404	416.414	416.486	416.414	417.404	416.156	416.354	416.156
180.0	417.358	417.358	417.358	417.358	417.358	417.358	417.358	417.358	417.358	417.358

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	865.894	865.894	865.894	865.894	865.894	865.894	865.894
2.5	865.418	864.739	864.270	864.739	865.418	864.626	863.762
5.0	861.967	861.188	860.871	861.188	861.967	861.168	861.524
7.5	856.838	855.637	855.492	855.637	856.838	855.941	855.281
10.0	848.872	848.318	847.354	848.318	848.872	848.324	847.605
12.5	839.289	838.477	838.325	838.477	839.289	838.992	838.913
15.0	827.884	827.310	826.954	827.310	827.884	827.713	828.029
17.5	815.113	814.506	814.169	814.506	815.113	814.783	814.532
20.0	800.342	799.478	798.376	799.478	800.342	799.973	799.643
22.5	783.176	782.265	781.658	782.265	783.176	783.572	782.938
25.0	765.257	764.485	763.752	764.485	765.257	765.508	765.831
27.5	745.892	744.883	743.477	744.883	745.892	745.543	746.612
30.0	724.462	723.248	721.934	723.248	724.462	725.083	725.498
32.5	701.785	700.861	699.917	700.861	701.785	702.794	703.382
35.0	677.794	676.368	675.563	676.368	677.794	678.044	679.246
37.5	651.493	650.470	649.433	650.470	651.493	652.852	653.882
40.0	624.056	623.383	622.578	623.383	624.056	625.548	626.182
42.5	596.231	595.393	594.455	595.393	596.231	597.465	598.184
45.0	567.184	566.042	565.475	566.042	567.184	568.874	569.620
47.5	536.461	535.702	535.861	535.702	536.461	538.857	540.560
50.0	505.197	504.761	504.346	504.761	505.197	507.586	509.124
52.5	473.312	473.207	473.002	473.207	473.312	474.936	476.870
55.0	440.807	440.167	439.996	440.167	440.807	442.504	443.533
57.5	407.675	407.207	407.557	407.207	407.675	409.741	411.497
60.0	373.738	373.586	374.662	373.586	373.738	376.576	378.668
62.5	339.966	339.590	340.969	339.590	339.966	341.847	344.751
65.0	305.408	306.068	306.979	306.068	305.408	307.091	309.830
67.5	271.115	270.976	272.804	270.976	271.115	272.257	275.213
70.0	236.749	236.419	238.154	236.419	236.749	238.267	240.616
72.5	202.356	202.514	202.356	202.514	202.356	203.392	205.498
75.0	169.435	169.046	169.719	169.046	169.435	170.108	172.313
77.5	136.732	135.808	136.693	135.808	136.732	137.392	139.425
80.0	105.178	104.960	104.386	104.960	105.178	106.432	107.666

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CANDELA TABULATION - (Cont.)

82.5	74.448	73.755	74.276	73.755	74.448	74.969	76.151
85.0	44.735	44.352	43.903	44.352	44.735	44.484	45.606
87.5	16.058	17.371	18.051	17.371	16.058	17.556	19.450
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	7.385	7.630	7.306	7.630	7.385	7.062	6.435
95.0	14.507	14.428	14.461	14.428	14.507	13.926	13.629
97.5	22.882	22.744	23.450	22.744	22.882	22.526	22.631
100.0	33.898	33.779	33.238	33.779	33.898	32.980	32.908
102.5	45.712	45.038	45.078	45.038	45.712	44.741	44.814
105.0	58.252	57.691	57.724	57.691	58.252	57.169	57.420
107.5	71.240	71.438	71.023	71.438	71.240	71.009	69.967
110.0	85.173	85.668	85.074	85.668	85.173	84.830	84.823
112.5	99.851	99.964	99.264	99.964	99.851	99.198	98.980
115.0	114.187	114.437	114.055	114.437	114.187	113.639	113.487
117.5	128.680	129.380	129.056	129.380	128.680	128.792	128.066
120.0	144.263	144.771	143.946	144.771	144.263	144.177	143.174
122.5	160.017	159.595	159.390	159.595	160.017	159.317	160.268
125.0	175.969	176.180	175.633	176.180	175.969	175.474	175.481
127.5	192.126	191.842	191.083	191.842	192.126	191.156	190.648
130.0	208.204	207.979	207.636	207.979	208.204	207.550	206.382
132.5	224.539	224.321	223.806	224.321	224.539	223.621	222.994
135.0	240.860	240.280	240.563	240.280	240.860	239.804	239.032
137.5	256.991	256.192	256.509	256.192	256.991	256.403	256.133
140.0	273.854	272.276	273.009	272.276	273.854	272.567	272.138
142.5	289.555	287.734	288.004	287.734	289.555	288.202	287.516
145.0	304.887	303.131	303.151	303.131	304.887	302.999	303.072
147.5	318.932	317.632	317.922	317.632	318.932	317.849	318.199
150.0	333.590	331.822	331.716	331.822	333.590	332.053	332.020
152.5	346.137	344.876	344.784	344.876	346.137	344.619	344.936
155.0	358.182	357.377	357.152	357.377	358.182	356.809	356.783
157.5	368.867	368.392	368.372	368.392	368.867	367.970	367.937
160.0	379.137	378.114	378.629	378.114	379.137	378.107	378.774
162.5	388.397	387.453	386.918	387.453	388.397	386.463	387.394
165.0	395.597	394.449	394.495	394.449	395.597	393.848	394.825
167.5	402.778	400.930	401.372	400.930	402.778	400.950	401.247
170.0	407.649	406.646	406.857	406.646	407.649	406.382	407.695
172.5	412.025	411.121	411.437	411.121	412.025	411.022	412.177
175.0	415.213	414.546	414.823	414.546	415.213	414.275	414.051
177.5	417.404	416.414	416.486	416.414	417.404	416.156	416.354
180.0	417.358	417.358	417.358	417.358	417.358	417.358	417.358

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	315.33	N.A.	9.00
0-30	667.84	N.A.	19.10
0-40	1091.44	N.A.	31.20
0-60	1923.61	N.A.	55.00
0-80	2406.82	N.A.	68.80
0-90	2458.35	N.A.	70.30
10-90	2376.54	N.A.	68.00
20-40	776.10	N.A.	22.20
20-50	1213.63	N.A.	34.70
40-70	1135.63	N.A.	32.50
60-80	483.21	N.A.	13.80
70-80	179.76	N.A.	5.10
80-90	51.53	N.A.	1.50
90-110	78.04	N.A.	2.20
90-120	191.10	N.A.	5.50
90-130	348.21	N.A.	10.00
90-150	723.26	N.A.	20.70
90-180	1038.3	N.A.	29.70
110-180	960.26	N.A.	27.50
0-180	3496.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.81
10-20	233.52
20-30	352.50
30-40	423.60
40-50	437.53
50-60	394.65
60-70	303.45
70-80	179.76
80-90	51.53
90-100	16.59
100-110	61.45
110-120	113.05
120-130	157.11
130-140	185.35
140-150	189.70
150-160	164.41
160-170	111.29
170-180	39.34

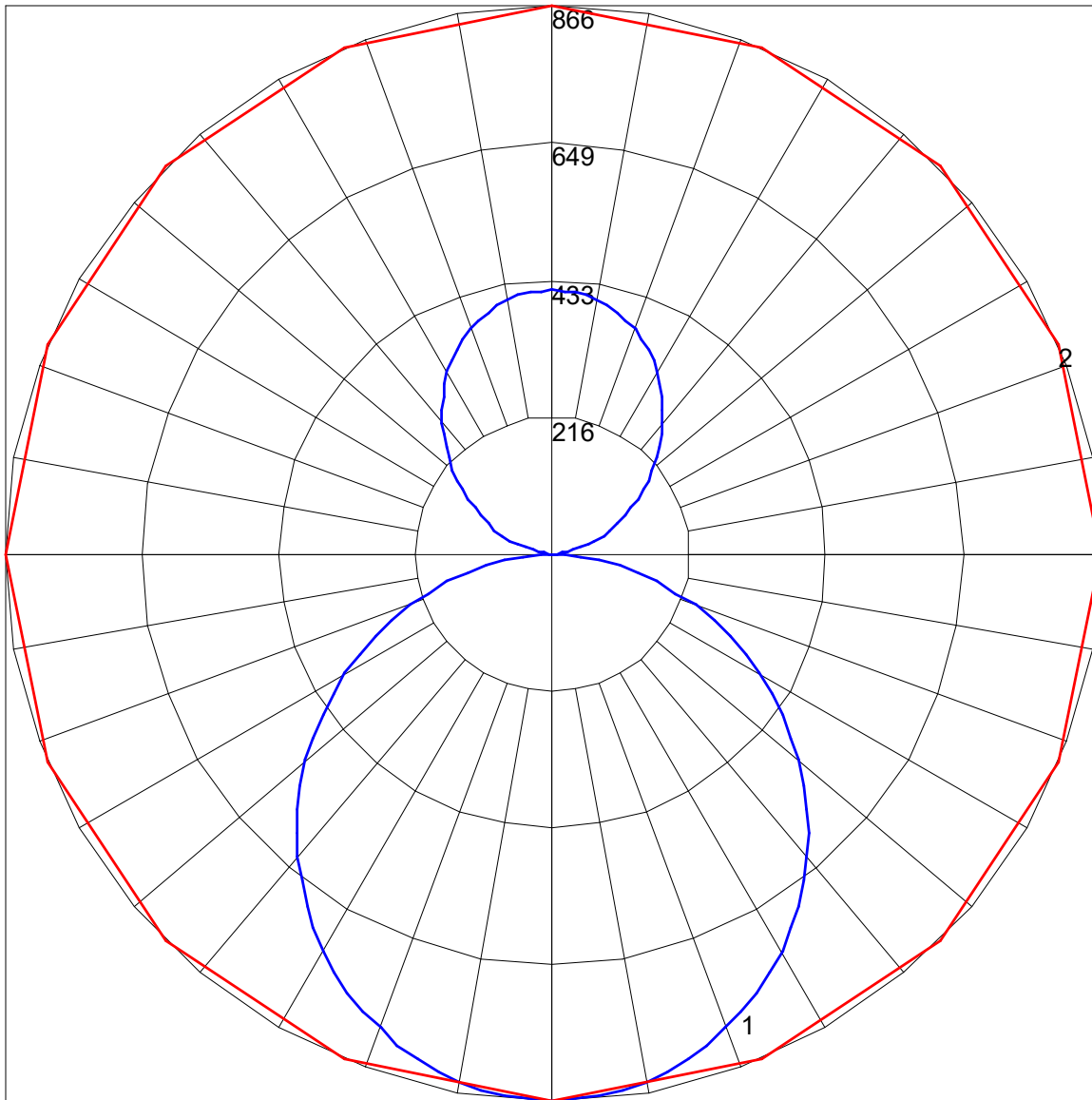
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	64	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 = 865.894 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.)