



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QDF-44-LED35-SO-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-SO-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	10596
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	163
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	1486	1424	1475
55	1371	1293	1360
65	1221	1118	1209
75	976	860	962
85	487	390	468

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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	2623.92	2623.92	2623.92	2623.92	2623.92	2623.92	2623.92	2623.92	2623.92	2623.92
2.5	2617.46	2620.08	2622.48	2620.42	2619.00	2620.42	2622.48	2620.08	2617.46	2620.08
5.0	2610.68	2609.60	2612.02	2609.66	2608.70	2609.66	2612.02	2609.60	2610.68	2609.60
7.5	2591.76	2593.76	2596.48	2592.84	2592.40	2592.84	2596.48	2593.76	2591.76	2593.76
10.0	2568.50	2570.68	2572.34	2570.66	2567.74	2570.66	2572.34	2570.68	2568.50	2570.68
12.5	2542.16	2542.40	2543.30	2540.84	2540.38	2540.84	2543.30	2542.40	2542.16	2542.40
15.0	2509.18	2508.22	2508.74	2507.00	2505.92	2507.00	2508.74	2508.22	2509.18	2508.22
17.5	2468.28	2469.04	2470.04	2468.20	2467.18	2468.20	2470.04	2469.04	2468.28	2469.04
20.0	2423.16	2424.16	2425.28	2422.66	2419.32	2422.66	2425.28	2424.16	2423.16	2424.16
22.5	2372.54	2374.46	2373.26	2370.50	2368.66	2370.50	2373.26	2374.46	2372.54	2374.46
25.0	2320.70	2319.72	2318.96	2316.62	2314.40	2316.62	2318.96	2319.72	2320.70	2319.72
27.5	2262.46	2259.22	2260.28	2257.22	2252.96	2257.22	2260.28	2259.22	2262.46	2259.22
30.0	2198.48	2197.22	2195.34	2191.66	2187.68	2191.66	2195.34	2197.22	2198.48	2197.22
32.5	2131.46	2129.68	2126.62	2123.82	2120.96	2123.82	2126.62	2129.68	2131.46	2129.68
35.0	2058.32	2054.68	2053.92	2049.60	2047.16	2049.60	2053.92	2054.68	2058.32	2054.68
37.5	1981.46	1978.34	1974.22	1971.12	1967.98	1971.12	1974.22	1978.34	1981.46	1978.34
40.0	1897.52	1895.60	1891.08	1889.04	1886.60	1889.04	1891.08	1895.60	1897.52	1895.60
42.5	1812.68	1810.50	1806.76	1804.22	1801.38	1804.22	1806.76	1810.50	1812.68	1810.50
45.0	1726.12	1723.86	1718.74	1715.28	1713.56	1715.28	1718.74	1723.86	1726.12	1723.86
47.5	1638.06	1632.90	1625.64	1623.34	1623.82	1623.34	1625.64	1632.90	1638.06	1632.90
50.0	1542.80	1538.14	1530.90	1529.58	1528.32	1529.58	1530.90	1538.14	1542.80	1538.14
52.5	1445.06	1439.20	1434.28	1433.96	1433.34	1433.96	1434.28	1439.20	1445.06	1439.20
55.0	1344.04	1340.92	1335.78	1333.84	1333.32	1333.84	1335.78	1340.92	1344.04	1340.92
57.5	1246.96	1241.64	1235.38	1233.96	1235.02	1233.96	1235.38	1241.64	1246.96	1241.64
60.0	1147.48	1141.14	1132.54	1132.08	1135.34	1132.08	1132.54	1141.14	1147.48	1141.14
62.5	1044.70	1035.90	1030.20	1029.06	1033.24	1029.06	1030.20	1035.90	1044.70	1035.90
65.0	938.88	930.58	925.48	927.48	930.24	927.48	925.48	930.58	938.88	930.58
67.5	833.98	825.02	821.56	821.14	826.68	821.14	821.56	825.02	833.98	825.02
70.0	729.14	722.02	717.42	716.42	721.68	716.42	717.42	722.02	729.14	722.02
72.5	622.72	616.34	613.20	613.68	613.20	613.68	613.20	616.34	622.72	616.34
75.0	522.16	515.48	513.44	512.26	514.30	512.26	513.44	515.48	522.16	515.48
77.5	422.50	416.34	414.34	411.54	414.22	411.54	414.34	416.34	422.50	416.34
80.0	326.26	322.52	318.72	318.06	316.32	318.06	318.72	322.52	326.26	322.52
82.5	230.76	227.18	225.60	223.50	225.08	223.50	225.60	227.18	230.76	227.18
85.0	138.20	134.80	135.56	134.40	133.04	134.40	135.56	134.80	138.20	134.80
87.5	58.94	53.20	48.66	52.64	54.70	52.64	48.66	53.20	58.94	53.20
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	19.50	21.40	22.38	23.12	22.14	23.12	22.38	21.40	19.50	21.40
95.0	41.30	42.20	43.96	43.72	43.82	43.72	43.96	42.20	41.30	42.20
97.5	68.58	68.26	69.34	68.92	71.06	68.92	69.34	68.26	68.58	68.26
100.0	99.72	99.94	102.72	102.36	100.72	102.36	102.72	99.94	99.72	99.94
102.5	135.80	135.58	138.52	136.48	136.60	136.48	138.52	135.58	135.80	135.58
105.0	174.00	173.24	176.52	174.82	174.92	174.82	176.52	173.24	174.00	173.24
107.5	212.02	215.18	215.88	216.48	215.22	216.48	215.88	215.18	212.02	215.18
110.0	257.04	257.06	258.10	259.60	257.80	259.60	258.10	257.06	257.04	257.06
112.5	299.94	300.60	302.58	302.92	300.80	302.92	302.58	300.60	299.94	300.60
115.0	343.90	344.36	346.02	346.78	345.62	346.78	346.02	344.36	343.90	344.36
117.5	388.08	390.28	389.94	392.06	391.08	392.06	389.94	390.28	388.08	390.28
120.0	433.86	436.90	437.16	438.70	436.20	438.70	437.16	436.90	433.86	436.90
122.5	485.66	482.78	484.90	483.62	483.00	483.62	484.90	482.78	485.66	482.78
125.0	531.76	531.74	533.24	533.88	532.22	533.88	533.24	531.74	531.76	531.74
127.5	577.72	579.26	582.20	581.34	579.04	581.34	582.20	579.26	577.72	579.26
130.0	625.40	628.94	630.92	630.24	629.20	630.24	630.92	628.94	625.40	628.94
132.5	675.74	677.64	680.42	679.76	678.20	679.76	680.42	677.64	675.74	677.64

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135.0	724.34	726.68	729.88	728.12	728.98	728.12	729.88	726.68	724.34	726.68
137.5	776.16	776.98	778.76	776.34	777.30	776.34	778.76	776.98	776.16	776.98
140.0	824.66	825.96	829.86	825.08	827.30	825.08	829.86	825.96	824.66	825.96
142.5	871.26	873.34	877.44	871.92	872.74	871.92	877.44	873.34	871.26	873.34
145.0	918.40	918.18	923.90	918.58	918.64	918.58	923.90	918.18	918.40	918.18
147.5	964.24	963.18	966.46	962.52	963.40	962.52	966.46	963.18	964.24	963.18
150.0	1006.12	1006.22	1010.88	1005.52	1005.20	1005.52	1010.88	1006.22	1006.12	1006.22
152.5	1045.26	1044.30	1048.90	1045.08	1044.80	1045.08	1048.90	1044.30	1045.26	1044.30
155.0	1081.16	1081.24	1085.40	1082.96	1082.28	1082.96	1085.40	1081.24	1081.16	1081.24
157.5	1114.96	1115.06	1117.78	1116.34	1116.28	1116.34	1117.78	1115.06	1114.96	1115.06
160.0	1147.80	1145.78	1148.90	1145.80	1147.36	1145.80	1148.90	1145.78	1147.80	1145.78
162.5	1173.92	1171.10	1176.96	1174.10	1172.48	1174.10	1176.96	1171.10	1173.92	1171.10
165.0	1196.44	1193.48	1198.78	1195.30	1195.44	1195.30	1198.78	1193.48	1196.44	1193.48
167.5	1215.90	1215.00	1220.54	1214.94	1216.28	1214.94	1220.54	1215.00	1215.90	1215.00
170.0	1235.44	1231.46	1235.30	1232.26	1232.90	1232.26	1235.30	1231.46	1235.44	1231.46
172.5	1249.02	1245.52	1248.56	1245.82	1246.78	1245.82	1248.56	1245.52	1249.02	1245.52
175.0	1254.70	1255.38	1258.22	1256.20	1257.04	1256.20	1258.22	1255.38	1254.70	1255.38
177.5	1261.68	1261.08	1264.86	1261.86	1262.08	1261.86	1264.86	1261.08	1261.68	1261.08
180.0	1264.72	1264.72	1264.72	1264.72	1264.72	1264.72	1264.72	1264.72	1264.72	1264.72

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	2623.92	2623.92	2623.92	2623.92	2623.92	2623.92	2623.92
2.5	2622.48	2620.42	2619.00	2620.42	2622.48	2620.08	2617.46
5.0	2612.02	2609.66	2608.70	2609.66	2612.02	2609.60	2610.68
7.5	2596.48	2592.84	2592.40	2592.84	2596.48	2593.76	2591.76
10.0	2572.34	2570.66	2567.74	2570.66	2572.34	2570.68	2568.50
12.5	2543.30	2540.84	2540.38	2540.84	2543.30	2542.40	2542.16
15.0	2508.74	2507.00	2505.92	2507.00	2508.74	2508.22	2509.18
17.5	2470.04	2468.20	2467.18	2468.20	2470.04	2469.04	2468.28
20.0	2425.28	2422.66	2419.32	2422.66	2425.28	2424.16	2423.16
22.5	2373.26	2370.50	2368.66	2370.50	2373.26	2374.46	2372.54
25.0	2318.96	2316.62	2314.40	2316.62	2318.96	2319.72	2320.70
27.5	2260.28	2257.22	2252.96	2257.22	2260.28	2259.22	2262.46
30.0	2195.34	2191.66	2187.68	2191.66	2195.34	2197.22	2198.48
32.5	2126.62	2123.82	2120.96	2123.82	2126.62	2129.68	2131.46
35.0	2053.92	2049.60	2047.16	2049.60	2053.92	2054.68	2058.32
37.5	1974.22	1971.12	1967.98	1971.12	1974.22	1978.34	1981.46
40.0	1891.08	1889.04	1886.60	1889.04	1891.08	1895.60	1897.52
42.5	1806.76	1804.22	1801.38	1804.22	1806.76	1810.50	1812.68
45.0	1718.74	1715.28	1713.56	1715.28	1718.74	1723.86	1726.12
47.5	1625.64	1623.34	1623.82	1623.34	1625.64	1632.90	1638.06
50.0	1530.90	1529.58	1528.32	1529.58	1530.90	1538.14	1542.80
52.5	1434.28	1433.96	1433.34	1433.96	1434.28	1439.20	1445.06
55.0	1335.78	1333.84	1333.32	1333.84	1335.78	1340.92	1344.04
57.5	1235.38	1233.96	1235.02	1233.96	1235.38	1241.64	1246.96
60.0	1132.54	1132.08	1135.34	1132.08	1132.54	1141.14	1147.48
62.5	1030.20	1029.06	1033.24	1029.06	1030.20	1035.90	1044.70
65.0	925.48	927.48	930.24	927.48	925.48	930.58	938.88
67.5	821.56	821.14	826.68	821.14	821.56	825.02	833.98
70.0	717.42	716.42	721.68	716.42	717.42	722.02	729.14
72.5	613.20	613.68	613.20	613.68	613.20	616.34	622.72
75.0	513.44	512.26	514.30	512.26	513.44	515.48	522.16
77.5	414.34	411.54	414.22	411.54	414.34	416.34	422.50
80.0	318.72	318.06	316.32	318.06	318.72	322.52	326.26

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CANDELA TABULATION - (Cont.)

82.5	225.60	223.50	225.08	223.50	225.60	227.18	230.76
85.0	135.56	134.40	133.04	134.40	135.56	134.80	138.20
87.5	48.66	52.64	54.70	52.64	48.66	53.20	58.94
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	22.38	23.12	22.14	23.12	22.38	21.40	19.50
95.0	43.96	43.72	43.82	43.72	43.96	42.20	41.30
97.5	69.34	68.92	71.06	68.92	69.34	68.26	68.58
100.0	102.72	102.36	100.72	102.36	102.72	99.94	99.72
102.5	138.52	136.48	136.60	136.48	138.52	135.58	135.80
105.0	176.52	174.82	174.92	174.82	176.52	173.24	174.00
107.5	215.88	216.48	215.22	216.48	215.88	215.18	212.02
110.0	258.10	259.60	257.80	259.60	258.10	257.06	257.04
112.5	302.58	302.92	300.80	302.92	302.58	300.60	299.94
115.0	346.02	346.78	345.62	346.78	346.02	344.36	343.90
117.5	389.94	392.06	391.08	392.06	389.94	390.28	388.08
120.0	437.16	438.70	436.20	438.70	437.16	436.90	433.86
122.5	484.90	483.62	483.00	483.62	484.90	482.78	485.66
125.0	533.24	533.88	532.22	533.88	533.24	531.74	531.76
127.5	582.20	581.34	579.04	581.34	582.20	579.26	577.72
130.0	630.92	630.24	629.20	630.24	630.92	628.94	625.40
132.5	680.42	679.76	678.20	679.76	680.42	677.64	675.74
135.0	729.88	728.12	728.98	728.12	729.88	726.68	724.34
137.5	778.76	776.34	777.30	776.34	778.76	776.98	776.16
140.0	829.86	825.08	827.30	825.08	829.86	825.96	824.66
142.5	877.44	871.92	872.74	871.92	877.44	873.34	871.26
145.0	923.90	918.58	918.64	918.58	923.90	918.18	918.40
147.5	966.46	962.52	963.40	962.52	966.46	963.18	964.24
150.0	1010.88	1005.52	1005.20	1005.52	1010.88	1006.22	1006.12
152.5	1048.90	1045.08	1044.80	1045.08	1048.90	1044.30	1045.26
155.0	1085.40	1082.96	1082.28	1082.96	1085.40	1081.24	1081.16
157.5	1117.78	1116.34	1116.28	1116.34	1117.78	1115.06	1114.96
160.0	1148.90	1145.80	1147.36	1145.80	1148.90	1145.78	1147.80
162.5	1176.96	1174.10	1172.48	1174.10	1176.96	1171.10	1173.92
165.0	1198.78	1195.30	1195.44	1195.30	1198.78	1193.48	1196.44
167.5	1220.54	1214.94	1216.28	1214.94	1220.54	1215.00	1215.90
170.0	1235.30	1232.26	1232.90	1232.26	1235.30	1231.46	1235.44
172.5	1248.56	1245.82	1246.78	1245.82	1248.56	1245.52	1249.02
175.0	1258.22	1256.20	1257.04	1256.20	1258.22	1255.38	1254.70
177.5	1264.86	1261.86	1262.08	1261.86	1264.86	1261.08	1261.68
180.0	1264.72	1264.72	1264.72	1264.72	1264.72	1264.72	1264.72

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	955.55	N.A.	9.00
0-30	2023.74	N.A.	19.10
0-40	3307.38	N.A.	31.20
0-60	5829.13	N.A.	55.00
0-80	7293.41	N.A.	68.80
0-90	7449.55	N.A.	70.30
10-90	7201.65	N.A.	68.00
20-40	2351.83	N.A.	22.20
20-50	3677.68	N.A.	34.70
40-70	3441.29	N.A.	32.50
60-80	1464.28	N.A.	13.80
70-80	544.74	N.A.	5.10
80-90	156.14	N.A.	1.50
90-110	236.50	N.A.	2.20
90-120	579.08	N.A.	5.50
90-130	1055.18	N.A.	10.00
90-150	2191.7	N.A.	20.70
90-180	3146.37	N.A.	29.70
110-180	2909.88	N.A.	27.50
0-180	10595.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	247.91
10-20	707.65
20-30	1068.19
30-40	1283.64
40-50	1325.84
50-60	1195.91
60-70	919.54
70-80	544.74
80-90	156.14
90-100	50.27
100-110	186.23
110-120	342.58
120-130	476.10
130-140	561.67
140-150	574.85
150-160	498.21
160-170	337.25
170-180	119.21

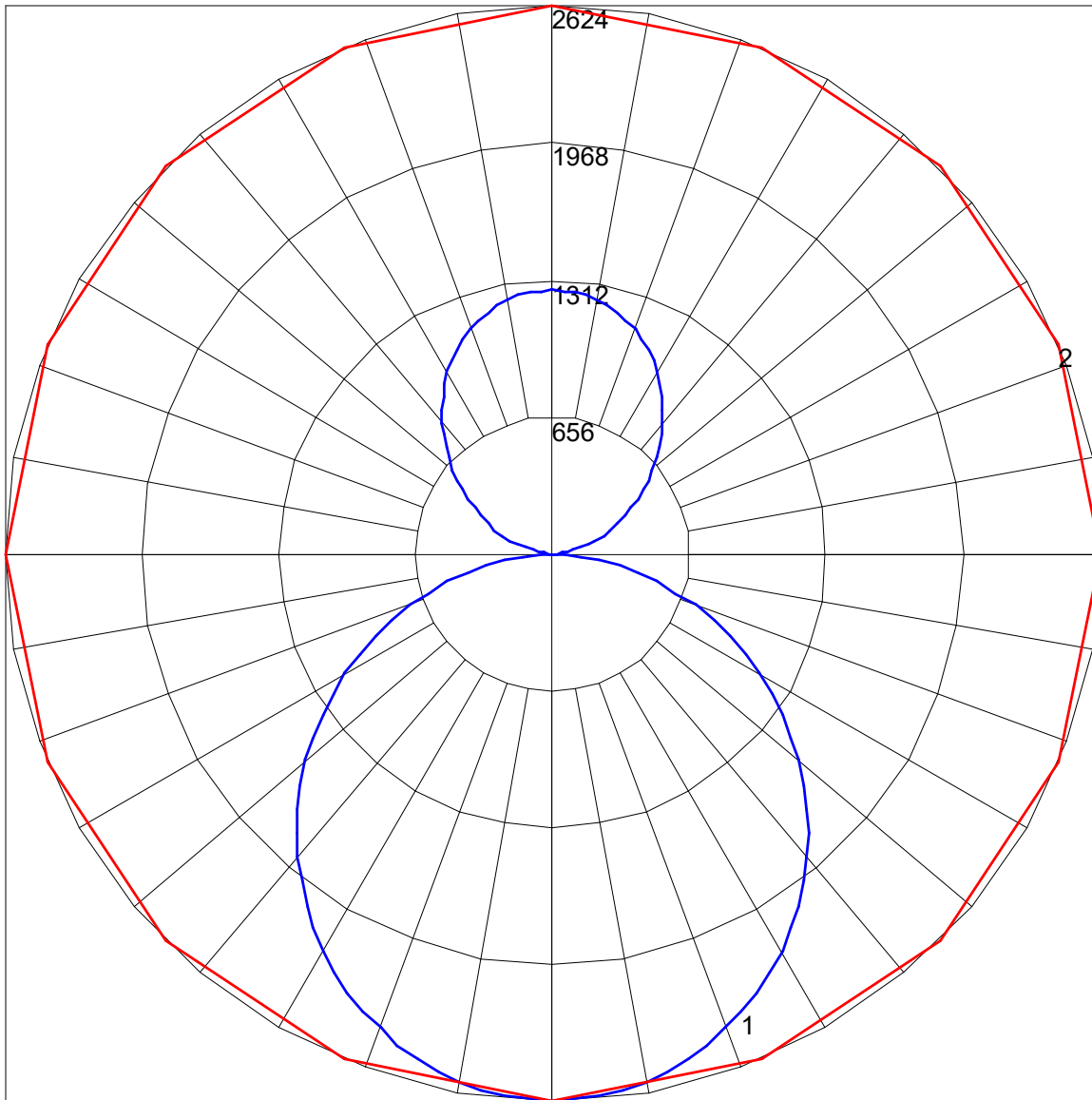
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2623.92 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.)