

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P551260

Luminaire Tested: **FCC-X-2-LD4-2HI-35-UNV-80-86-ED1D**

Issue Date: 7/9/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P551260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FCC-X-2-LD4-2HI-35-UNV-80-86-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

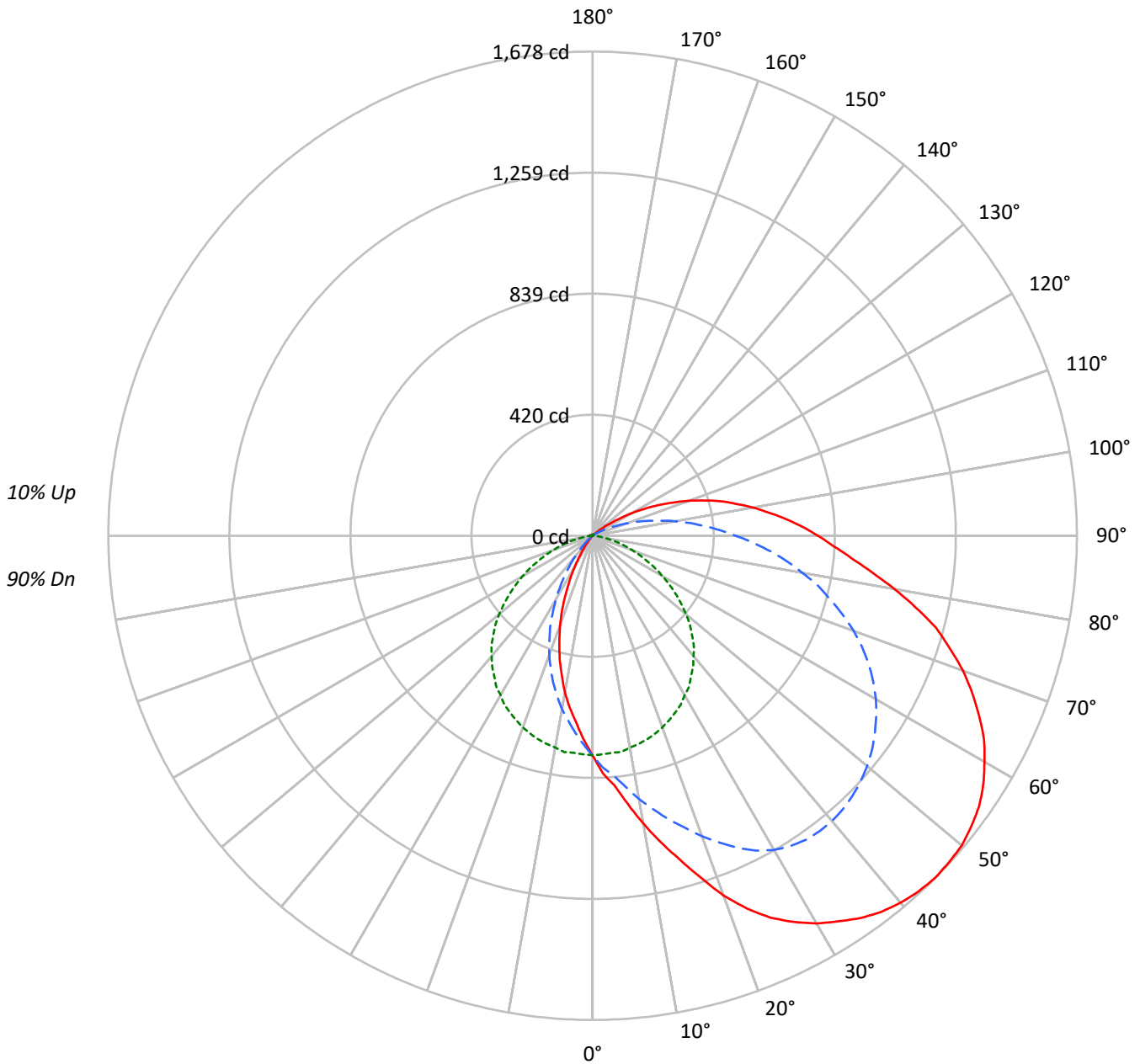
Lumens per Lamp: N/A
Luminaire Lumens: 3761.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 43.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P551260

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-80-86-ED1D

Luminous Intensity Polar Plot





TEST NUMBER: P551260

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-80-86-ED1D

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	50	30	10	0
RCR																					
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	93	93	93	90
1	103	96	91	86	99	93	88	83	87	83	79	81	78	74	76	73	70	70	70	70	67
2	92	82	74	67	88	79	72	65	74	67	62	69	64	59	64	60	56	56	56	56	53
3	83	71	61	54	79	68	60	53	64	56	50	59	53	48	55	50	46	46	46	46	43
4	75	62	52	44	72	60	51	44	56	48	42	52	45	40	49	43	38	38	38	38	36
5	69	55	45	38	66	53	44	37	50	42	35	46	39	34	43	38	33	33	33	33	30
6	63	49	39	32	61	47	38	32	44	36	31	42	35	29	39	33	28	28	28	28	26
7	58	44	35	28	56	43	34	28	40	32	27	38	31	26	36	29	25	25	25	25	23
8	54	40	31	25	52	39	30	24	37	29	24	34	28	23	32	26	22	22	22	22	20
9	51	36	28	22	49	35	27	22	33	26	21	32	25	20	30	24	20	20	20	20	18
10	47	33	25	20	45	33	25	19	31	24	19	29	23	18	28	22	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8189	8189	8189
5°	8989	8068	6732
10°	10172	7970	5549
15°	11399	7868	4324
20°	12857	7741	3184
25°	14066	7591	2091
30°	14965	7393	1178
35°	15743	7178	519
40°	16432	6914	125
45°	17024	6583	0
50°	17521	6145	0
55°	17899	5586	0
60°	18090	4939	0
65°	18165	4204	0
70°	18104	3427	0
75°	17875	2530	15
80°	17150	1545	78
85°	16577	737	107



TEST NUMBER: P551260

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-80-86-ED1D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	1.9
10°-20°	218.2	5.8
20°-30°	353.3	9.4
30°-40°	453.9	12.1
40°-50°	513.8	13.7
50°-60°	532.3	14.2
60°-70°	502.0	13.3
70°-80°	420.7	11.2
80°-90°	304.9	8.1
90°-100°	200.4	5.3
100°-110°	115.7	3.1
110°-120°	51.1	1.4
120°-130°	13.8	0.4
130°-140°	3.2	0.1
140°-150°	2.1	0.1
150°-160°	1.5	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	644.4	17.1
0°-40°	1098.3	29.2
0°-60°	2144.4	57.0
0°-90°	3372.1	89.7
90°-120°	367.3	9.8
90°-150°	386.3	10.3
90°-180°	389.0	10.3
0°-180°	3761.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	761	761	761	761	761	
5°	868	834	755	685	650	88
15°	1160	1017	730	527	440	334
25°	1460	1193	676	347	217	675
35°	1618	1286	594	169	53	1014
45°	1678	1274	486	39	0	1295
55°	1635	1193	351	0	0	1460
65°	1478	1056	209	0	0	1462
75°	1232	852	89	1	1	1292
85°	901	618	14	4	6	770
90°	781	496	4	6	7	428
95°	671	387	2	7	9	526
105°	461	200	2	5	8	487
115°	251	66	3	3	5	251
125°	75	9	4	3	4	75
135°	4	3	5	4	3	7
145°	1	3	4	3	3	1
155°	2	4	4	3	1	1
165°	2	3	4	3	0	1
175°	2	3	5	3	1	0
180°	3	3	3	3	3	



TEST NUMBER: P551260

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-80-86-ED1D

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
0°	760.8	760.8	760.8	760.8	760.8	760.8	760.8	760.8	760.8	760.8	760.8
2.5°	824.7	823.8	820.8	816.0	809.2	797.6	787.9	779.2	767.5	757.9	739.4
5°	868.3	863.5	859.6	854.8	839.3	828.6	811.2	791.8	773.4	754.9	718.1
7.5°	938.1	930.4	924.5	911.0	889.7	865.4	838.3	819.9	807.3	755.9	692.9
10°	1012.7	1005.9	994.3	970.1	943.9	909.0	870.3	826.7	787.9	745.3	670.6
12.5°	1086.4	1076.7	1060.2	1029.2	992.4	948.8	895.5	844.1	788.9	738.5	644.5
15°	1160.0	1149.4	1131.9	1094.1	1045.7	988.5	923.6	858.6	793.7	729.7	617.3
17.5°	1240.5	1225.9	1199.8	1157.1	1096.1	1025.3	948.8	870.3	791.8	719.1	588.3
20°	1326.7	1306.4	1278.3	1221.1	1149.4	1066.0	974.0	881.9	790.8	706.5	555.3
22.5°	1398.4	1378.1	1347.1	1288.0	1201.7	1100.0	995.3	889.7	786.9	692.0	524.3
25°	1460.5	1444.0	1410.1	1342.2	1251.1	1135.8	1015.6	895.5	781.1	676.4	491.3
27.5°	1508.9	1493.4	1455.6	1385.8	1292.8	1167.8	1031.1	898.4	773.4	660.9	457.4
30°	1551.6	1536.1	1490.5	1418.8	1320.9	1193.0	1046.7	899.3	763.7	637.7	420.6
32.5°	1584.5	1570.0	1523.5	1446.9	1340.3	1210.4	1055.4	898.4	751.1	621.2	380.9
35°	1617.5	1602.9	1548.7	1467.2	1354.8	1218.2	1062.2	893.5	735.6	594.1	343.1
37.5°	1642.7	1626.2	1570.9	1480.8	1361.6	1220.1	1061.2	886.7	719.1	571.8	305.3
40°	1660.1	1642.7	1583.5	1488.6	1363.6	1217.2	1053.4	875.1	699.7	543.7	265.5
42.5°	1671.7	1652.4	1589.4	1500.2	1359.7	1209.5	1041.8	860.6	678.4	519.4	227.7
45°	1677.5	1657.2	1590.3	1490.5	1352.9	1194.9	1024.4	842.2	655.1	486.5	189.9
47.5°	1674.6	1652.4	1585.5	1479.8	1340.3	1179.4	1005.0	819.9	627.0	457.4	154.1
50°	1669.8	1646.5	1574.8	1466.3	1322.9	1160.0	983.7	792.7	597.9	421.6	122.1
52.5°	1654.3	1631.0	1563.2	1446.9	1302.5	1137.7	954.6	764.6	566.9	386.7	93.0
55°	1634.9	1613.6	1542.8	1429.5	1276.3	1110.6	927.4	734.6	536.9	350.8	66.9
57.5°	1604.9	1585.5	1517.6	1401.3	1250.2	1080.6	897.4	701.6	499.1	315.0	46.5
60°	1568.0	1548.7	1482.8	1369.4	1220.1	1046.7	864.5	667.7	465.2	279.1	29.1
62.5°	1529.3	1510.9	1442.1	1329.6	1182.3	1010.8	828.6	633.8	429.3	246.2	17.4
65°	1477.9	1460.5	1398.4	1282.1	1140.7	972.0	788.9	593.1	392.5	209.3	9.7
67.5°	1423.6	1408.1	1345.1	1238.5	1092.2	929.4	748.2	553.4	353.7	177.3	4.8
70°	1365.5	1346.1	1288.0	1179.4	1042.8	880.9	703.6	512.7	316.9	146.3	0.0
72.5°	1297.7	1283.1	1226.9	1124.2	985.6	829.6	658.0	468.1	276.2	116.3	1.0
75°	1231.8	1213.3	1162.0	1065.1	929.4	775.3	607.6	426.4	236.5	89.2	1.0
77.5°	1146.5	1140.7	1092.2	998.2	876.1	723.0	552.4	376.0	198.7	64.0	1.0
80°	1061.2	1055.4	1017.6	931.3	814.1	660.9	501.0	328.5	161.8	42.6	1.0
82.5°	976.9	969.1	933.3	861.5	751.1	608.6	447.7	281.0	127.9	26.2	1.0
85°	901.3	891.6	852.8	786.9	686.1	549.5	392.5	234.5	95.0	14.5	1.9
87.5°	836.4	829.6	786.9	719.1	620.2	494.3	344.0	189.9	66.9	6.8	2.9
90°	781.1	766.6	728.8	657.1	558.2	433.2	292.7	152.2	44.6	3.9	3.9
92.5°	726.8	714.2	672.6	598.9	503.0	380.9	243.2	116.3	28.1	1.9	4.8
95°	670.6	657.1	616.4	548.5	446.8	327.6	199.6	85.3	15.5	1.9	4.8
97.5°	615.4	602.8	560.2	492.3	396.4	281.0	158.0	60.1	7.8	1.9	3.9
100°	564.0	549.5	510.7	442.9	346.0	234.5	122.1	38.8	4.8	1.9	3.9
102.5°	509.8	498.1	458.4	392.5	293.6	190.9	91.1	24.2	1.9	1.9	2.9
105°	461.3	446.8	408.0	340.2	250.0	150.2	64.0	14.5	1.9	1.9	2.9



TEST NUMBER: P551260

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-80-86-ED1D

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	300.4	288.8	254.9	197.7	127.0	59.1	17.4	2.9	2.9	2.9	2.9
115°	251.0	233.6	203.5	153.1	94.0	38.8	8.7	2.9	2.9	2.9	2.9
117.5°	200.6	186.1	164.8	116.3	62.0	25.2	4.8	2.9	2.9	2.9	2.9
120°	157.0	143.4	119.2	80.4	41.7	14.5	1.9	2.9	2.9	2.9	2.9
122.5°	112.4	101.8	80.4	52.3	25.2	6.8	2.9	2.9	3.9	3.9	2.9
125°	74.6	68.8	53.3	32.0	15.5	2.9	2.9	2.9	3.9	3.9	2.9
127.5°	48.5	43.6	31.0	18.4	6.8	2.9	2.9	3.9	3.9	3.9	2.9
130°	27.1	24.2	18.4	10.7	2.9	2.9	2.9	3.9	3.9	3.9	2.9
132.5°	15.5	14.5	9.7	1.9	2.9	2.9	2.9	3.9	3.9	3.9	3.9
135°	3.9	1.9	1.9	1.9	2.9	2.9	3.9	3.9	4.8	4.8	3.9
137.5°	1.0	1.0	1.9	1.9	2.9	2.9	3.9	4.8	4.8	4.8	3.9
140°	1.0	1.0	1.9	2.9	2.9	2.9	3.9	4.8	4.8	4.8	3.9
142.5°	1.0	1.9	1.9	2.9	2.9	3.9	3.9	4.8	4.8	3.9	3.9
145°	1.0	1.9	1.9	2.9	2.9	3.9	3.9	4.8	3.9	3.9	3.9
147.5°	1.9	1.9	1.9	2.9	2.9	3.9	3.9	4.8	4.8	3.9	3.9
150°	1.0	1.9	1.9	2.9	3.9	3.9	3.9	4.8	3.9	3.9	3.9
152.5°	1.0	1.9	1.9	2.9	3.9	3.9	3.9	4.8	3.9	3.9	3.9
155°	1.9	1.9	1.9	2.9	3.9	3.9	3.9	4.8	3.9	3.9	4.8
157.5°	1.9	1.9	1.9	2.9	3.9	3.9	3.9	4.8	3.9	3.9	4.8
160°	1.9	1.9	1.9	2.9	2.9	3.9	3.9	3.9	3.9	3.9	3.9
162.5°	1.9	1.9	1.9	2.9	2.9	3.9	3.9	3.9	3.9	3.9	3.9
165°	1.9	1.9	1.9	1.9	2.9	2.9	3.9	3.9	3.9	3.9	3.9
167.5°	1.9	1.9	1.9	2.9	2.9	2.9	3.9	3.9	3.9	3.9	3.9
170°	1.9	1.9	1.9	2.9	2.9	2.9	3.9	4.8	4.8	4.8	4.8
172.5°	1.9	1.9	1.9	2.9	2.9	3.9	3.9	4.8	4.8	4.8	4.8
175°	1.9	1.9	1.9	2.9	2.9	3.9	3.9	4.8	4.8	4.8	4.8
177.5°	1.0	1.9	1.9	2.9	2.9	3.9	3.9	4.8	4.8	4.8	3.9
180°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9



TEST NUMBER: P551260

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-80-86-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	760.8	760.8	760.8
2.5°	723.9	710.4	706.5
5°	685.2	662.9	650.3
7.5°	646.4	616.4	601.8
10°	610.5	567.9	552.4
12.5°	567.9	518.5	494.3
15°	527.2	463.2	440.0
17.5°	481.7	409.9	382.8
20°	439.0	356.6	328.5
22.5°	390.6	304.3	273.3
25°	346.9	252.0	217.1
27.5°	298.5	198.7	168.6
30°	252.9	152.2	122.1
32.5°	209.3	111.4	84.3
35°	168.6	75.6	53.3
37.5°	129.9	46.5	27.1
40°	94.0	24.2	12.6
42.5°	63.0	11.6	6.8
45°	38.8	5.8	0.0
47.5°	22.3	0.0	0.0
50°	11.6	0.0	0.0
52.5°	4.8	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	1.0	1.0	1.0
77.5°	1.0	1.9	2.9
80°	1.9	3.9	4.8
82.5°	3.9	4.8	4.8
85°	3.9	4.8	5.8
87.5°	4.8	5.8	6.8
90°	5.8	6.8	6.8
92.5°	5.8	7.8	7.8
95°	6.8	7.8	8.7
97.5°	7.8	8.7	8.7
100°	6.8	8.7	9.7
102.5°	5.8	8.7	8.7
105°	4.8	6.8	7.8



TEST NUMBER: P551260

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-80-86-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	3.9	4.8	4.8
115°	2.9	3.9	4.8
117.5°	2.9	3.9	3.9
120°	2.9	2.9	3.9
122.5°	2.9	2.9	3.9
125°	2.9	2.9	3.9
127.5°	3.9	2.9	2.9
130°	2.9	2.9	2.9
132.5°	3.9	2.9	2.9
135°	3.9	2.9	2.9
137.5°	3.9	2.9	2.9
140°	3.9	2.9	2.9
142.5°	3.9	2.9	2.9
145°	2.9	2.9	2.9
147.5°	2.9	2.9	2.9
150°	2.9	2.9	1.9
152.5°	2.9	1.9	1.9
155°	2.9	1.9	1.0
157.5°	3.9	1.9	1.0
160°	2.9	1.9	1.0
162.5°	2.9	1.9	1.0
165°	2.9	1.9	0.0
167.5°	2.9	1.9	1.0
170°	2.9	1.9	1.0
172.5°	2.9	1.9	1.0
175°	2.9	1.0	1.0
177.5°	2.9	1.0	1.0
180°	2.9	2.9	2.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	407.0	395.4	356.6	292.7	204.5	114.4	42.6	7.8	1.9	2.9	2.9
110°	354.7	345.0	305.3	243.2	164.8	85.3	28.1	4.8	2.9	2.9	2.9





107.5°	3.9	5.8	6.8
110°	3.9	4.8	5.8



(END OF REPORT)