

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: P551258

Luminaire Tested: **FCC-X-2-LD4-2HI-35-UNV-80-85-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: P551258
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-80-85-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

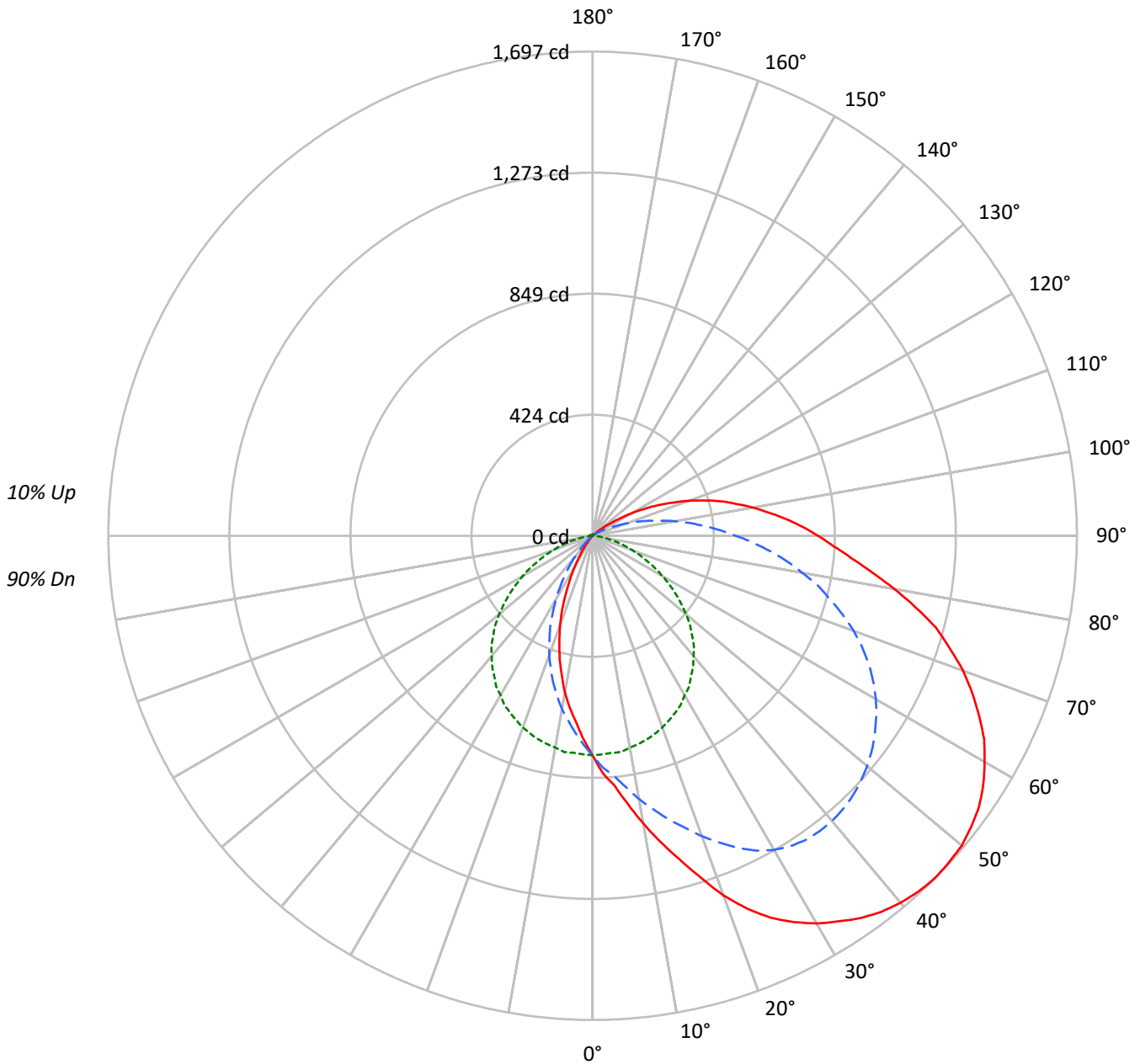
Lumens per Lamp: N/A
Luminaire Lumens: 3803.9 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8283	8283	8283
5°	9092	8161	6809
10°	10288	8061	5612
15°	11530	7959	4373
20°	13004	7829	3220
25°	14227	7678	2115
30°	15136	7477	1191
35°	15923	7261	525
40°	16620	6993	126
45°	17219	6659	0
50°	17722	6215	0
55°	18104	5650	0
60°	18297	4996	0
65°	18372	4252	0
70°	18311	3467	0
75°	18078	2558	15
80°	17345	1563	79
85°	16766	747	109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	1.9
10°-20°	220.7	5.8
20°-30°	357.4	9.4
30°-40°	459.1	12.1
40°-50°	519.7	13.7
50°-60°	538.4	14.2
60°-70°	507.8	13.3
70°-80°	425.5	11.2
80°-90°	308.4	8.1
90°-100°	202.7	5.3
100°-110°	117.1	3.1
110°-120°	51.6	1.4
120°-130°	14.0	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°	651.8	17.1
0°-40°	1110.8	29.2
0°-60°	2168.9	57.0
0°-90°	3410.6	89.7
90°-120°	371.4	9.8
90°-150°	390.7	10.3
90°-180°	393.0	10.3
0°-180°	3803.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	770	770	770	770	770	
5°	878	844	764	693	658	89
15°	1173	1029	738	533	445	338
25°	1477	1207	684	351	220	683
35°	1636	1301	601	171	54	1026
45°	1697	1288	492	39	0	1310
55°	1654	1207	355	0	0	1477
65°	1495	1068	212	0	0	1479
75°	1246	862	90	1	1	1307
85°	912	625	15	4	6	778
90°	790	501	4	6	7	433
95°	678	392	2	7	9	532
105°	467	202	2	5	8	492
115°	254	67	3	3	5	254
125°	76	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	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
0°	769.5	769.5	769.5	769.5	769.5	769.5	769.5	769.5	769.5	769.5	769.5
2.5°	834.2	833.2	830.2	825.3	818.5	806.7	796.9	788.1	776.3	766.5	747.9
5°	878.3	873.4	869.4	864.5	848.9	838.1	820.4	800.8	782.2	763.6	726.3
7.5°	948.8	941.0	935.1	921.4	899.8	875.3	847.9	829.3	816.5	764.6	700.8
10°	1024.3	1017.4	1005.7	981.2	954.7	919.4	880.2	836.1	796.9	753.8	678.3
12.5°	1098.8	1089.0	1072.3	1041.0	1003.7	959.6	905.7	853.8	797.9	746.9	651.8
15°	1173.3	1162.5	1144.9	1106.6	1057.6	999.8	934.1	868.5	802.8	738.1	624.4
17.5°	1254.7	1240.0	1213.5	1170.4	1108.6	1037.1	959.6	880.2	800.8	727.3	595.0
20°	1341.9	1321.3	1292.9	1235.1	1162.5	1078.2	985.1	892.0	799.8	714.6	561.7
22.5°	1414.4	1393.8	1362.5	1302.7	1215.4	1112.5	1006.7	899.8	795.9	699.9	530.3
25°	1477.2	1460.5	1426.2	1357.6	1265.4	1148.8	1027.3	905.7	790.0	684.2	497.0
27.5°	1526.2	1510.5	1472.3	1401.7	1307.6	1181.1	1042.9	908.6	782.2	668.5	462.7
30°	1569.3	1553.6	1507.5	1435.0	1336.0	1206.6	1058.6	909.6	772.4	645.0	425.4
32.5°	1602.6	1587.9	1540.9	1463.4	1355.6	1224.3	1067.4	908.6	759.7	628.3	385.2
35°	1636.0	1621.3	1566.4	1484.0	1370.3	1232.1	1074.3	903.7	744.0	600.9	347.0
37.5°	1661.4	1644.8	1588.9	1497.7	1377.2	1234.1	1073.3	896.9	727.3	578.3	308.8
40°	1679.1	1661.4	1601.6	1505.6	1379.1	1231.1	1065.5	885.1	707.7	549.9	268.6
42.5°	1690.8	1671.2	1607.5	1517.4	1375.2	1223.3	1053.7	870.4	686.1	525.4	230.3
45°	1696.7	1676.1	1608.5	1507.5	1368.4	1208.6	1036.1	851.8	662.6	492.1	192.1
47.5°	1693.8	1671.2	1603.6	1496.8	1355.6	1192.9	1016.5	829.3	634.2	462.7	155.9
50°	1688.9	1665.4	1592.8	1483.0	1338.0	1173.3	994.9	801.8	604.8	426.4	123.5
52.5°	1673.2	1649.7	1581.1	1463.4	1317.4	1150.8	965.5	773.4	573.4	391.1	94.1
55°	1653.6	1632.0	1560.5	1445.8	1290.9	1123.3	938.1	743.0	543.0	354.8	67.6
57.5°	1623.2	1603.6	1535.0	1417.4	1264.5	1092.9	907.7	709.7	504.8	318.6	47.0
60°	1586.0	1566.4	1499.7	1385.0	1234.1	1058.6	874.3	675.4	470.5	282.3	29.4
62.5°	1546.8	1528.1	1458.5	1344.8	1195.8	1022.3	838.1	641.1	434.2	249.0	17.6
65°	1494.8	1477.2	1414.4	1296.8	1153.7	983.1	797.9	599.9	397.0	211.7	9.8
67.5°	1439.9	1424.2	1360.5	1252.7	1104.7	940.0	756.7	559.7	357.8	179.4	4.9
70°	1381.1	1361.5	1302.7	1192.9	1054.7	891.0	711.6	518.5	320.5	148.0	0.0
72.5°	1312.5	1297.8	1240.9	1137.0	996.9	839.1	665.6	473.4	279.4	117.6	1.0
75°	1245.8	1227.2	1175.3	1077.2	940.0	784.2	614.6	431.3	239.2	90.2	1.0
77.5°	1159.6	1153.7	1104.7	1009.6	886.1	731.2	558.7	380.3	200.9	64.7	1.0
80°	1073.3	1067.4	1029.2	942.0	823.4	668.5	506.8	332.3	163.7	43.1	1.0
82.5°	988.0	980.2	943.9	871.4	759.7	615.6	452.9	284.3	129.4	26.5	1.0
85°	911.6	901.8	862.6	795.9	694.0	555.8	397.0	237.2	96.1	14.7	2.0
87.5°	845.9	839.1	795.9	727.3	627.3	499.9	348.0	192.1	67.6	6.9	2.9
90°	790.0	775.3	737.1	664.6	564.6	438.1	296.0	153.9	45.1	3.9	3.9
92.5°	735.2	722.4	680.3	605.8	508.7	385.2	246.0	117.6	28.4	2.0	4.9
95°	678.3	664.6	623.4	554.8	451.9	331.3	201.9	86.3	15.7	2.0	4.9
97.5°	622.4	609.7	566.6	497.9	400.9	284.3	159.8	60.8	7.8	2.0	3.9
100°	570.5	555.8	516.6	448.0	349.9	237.2	123.5	39.2	4.9	2.0	3.9
102.5°	515.6	503.8	463.6	397.0	297.0	193.1	92.1	24.5	2.0	2.0	2.9
105°	466.6	451.9	412.7	344.1	252.9	151.9	64.7	14.7	2.0	2.0	2.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	303.9	292.1	257.8	200.0	128.4	59.8	17.6	2.9	2.9	2.9	2.9
115°	253.9	236.2	205.8	154.9	95.1	39.2	8.8	2.9	2.9	2.9	2.9
117.5°	202.9	188.2	166.6	117.6	62.7	25.5	4.9	2.9	2.9	2.9	2.9
120°	158.8	145.1	120.6	81.4	42.1	14.7	2.0	2.9	2.9	2.9	2.9
122.5°	113.7	102.9	81.4	52.9	25.5	6.9	2.9	2.9	3.9	3.9	2.9
125°	75.5	69.6	53.9	32.3	15.7	2.9	2.9	2.9	3.9	3.9	2.9
127.5°	49.0	44.1	31.4	18.6	6.9	2.9	2.9	3.9	3.9	3.9	2.9
130°	27.4	24.5	18.6	10.8	2.9	2.9	2.9	3.9	3.9	3.9	2.9
132.5°	15.7	14.7	9.8	2.0	2.9	2.9	2.9	3.9	3.9	3.9	3.9
135°	3.9	2.0	2.0	2.0	2.9	2.9	3.9	3.9	4.9	4.9	3.9
137.5°	1.0	1.0	2.0	2.0	2.9	2.9	3.9	4.9	4.9	4.9	3.9
140°	1.0	1.0	2.0	2.9	2.9	2.9	3.9	4.9	4.9	4.9	3.9
142.5°	1.0	2.0	2.0	2.9	2.9	3.9	3.9	4.9	4.9	3.9	3.9
145°	1.0	2.0	2.0	2.9	2.9	3.9	3.9	4.9	3.9	3.9	3.9
147.5°	2.0	2.0	2.0	2.9	2.9	3.9	3.9	4.9	4.9	3.9	3.9
150°	1.0	2.0	2.0	2.9	3.9	3.9	3.9	4.9	3.9	3.9	3.9
152.5°	1.0	2.0	2.0	2.9	3.9	3.9	3.9	4.9	3.9	3.9	3.9
155°	2.0	2.0	2.0	2.9	3.9	3.9	3.9	4.9	3.9	3.9	4.9
157.5°	2.0	2.0	2.0	2.9	3.9	3.9	3.9	4.9	3.9	3.9	4.9
160°	2.0	2.0	2.0	2.9	2.9	3.9	3.9	3.9	3.9	3.9	3.9
162.5°	2.0	2.0	2.0	2.9	2.9	3.9	3.9	3.9	3.9	3.9	3.9
165°	2.0	2.0	2.0	2.0	2.9	2.9	3.9	3.9	3.9	3.9	3.9
167.5°	2.0	2.0	2.0	2.9	2.9	2.9	3.9	3.9	3.9	3.9	3.9
170°	2.0	2.0	2.0	2.9	2.9	2.9	3.9	4.9	4.9	4.9	4.9
172.5°	2.0	2.0	2.0	2.9	2.9	3.9	3.9	4.9	4.9	4.9	4.9
175°	2.0	2.0	2.0	2.9	2.9	3.9	3.9	4.9	4.9	4.9	4.9
177.5°	1.0	2.0	2.0	2.9	2.9	3.9	3.9	4.9	4.9	4.9	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



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	769.5	769.5	769.5
2.5°	732.2	718.5	714.6
5°	693.0	670.5	657.7
7.5°	653.8	623.4	608.7
10°	617.5	574.4	558.7
12.5°	574.4	524.4	499.9
15°	533.2	468.5	445.0
17.5°	487.2	414.6	387.2
20°	444.0	360.7	332.3
22.5°	395.0	307.8	276.4
25°	350.9	254.9	219.6
27.5°	301.9	200.9	170.6
30°	255.8	153.9	123.5
32.5°	211.7	112.7	85.3
35°	170.6	76.5	53.9
37.5°	131.3	47.0	27.4
40°	95.1	24.5	12.7
42.5°	63.7	11.8	6.9
45°	39.2	5.9	0.0
47.5°	22.5	0.0	0.0
50°	11.8	0.0	0.0
52.5°	4.9	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	2.0	2.9
80°	2.0	3.9	4.9
82.5°	3.9	4.9	4.9
85°	3.9	4.9	5.9
87.5°	4.9	5.9	6.9
90°	5.9	6.9	6.9
92.5°	5.9	7.8	7.8
95°	6.9	7.8	8.8
97.5°	7.8	8.8	8.8
100°	6.9	8.8	9.8
102.5°	5.9	8.8	8.8
105°	4.9	6.9	7.8



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CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-80-85-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	3.9	4.9	4.9
115°	2.9	3.9	4.9
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	2.0
152.5°	2.9	2.0	2.0
155°	2.9	2.0	1.0
157.5°	3.9	2.0	1.0
160°	2.9	2.0	1.0
162.5°	2.9	2.0	1.0
165°	2.9	2.0	0.0
167.5°	2.9	2.0	1.0
170°	2.9	2.0	1.0
172.5°	2.9	2.0	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°	411.7	399.9	360.7	296.0	206.8	115.7	43.1	7.8	2.0	2.9	2.9
110°	358.8	349.0	308.8	246.0	166.6	86.3	28.4	4.9	2.9	2.9	2.9





107.5°	3.9	5.9	6.9
110°	3.9	4.9	5.9



(END OF REPORT)