

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: P551266

Luminaire Tested: **FCC-X-2-LD4-2HI-35-UNV-80-94-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: P551266
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-80-94-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

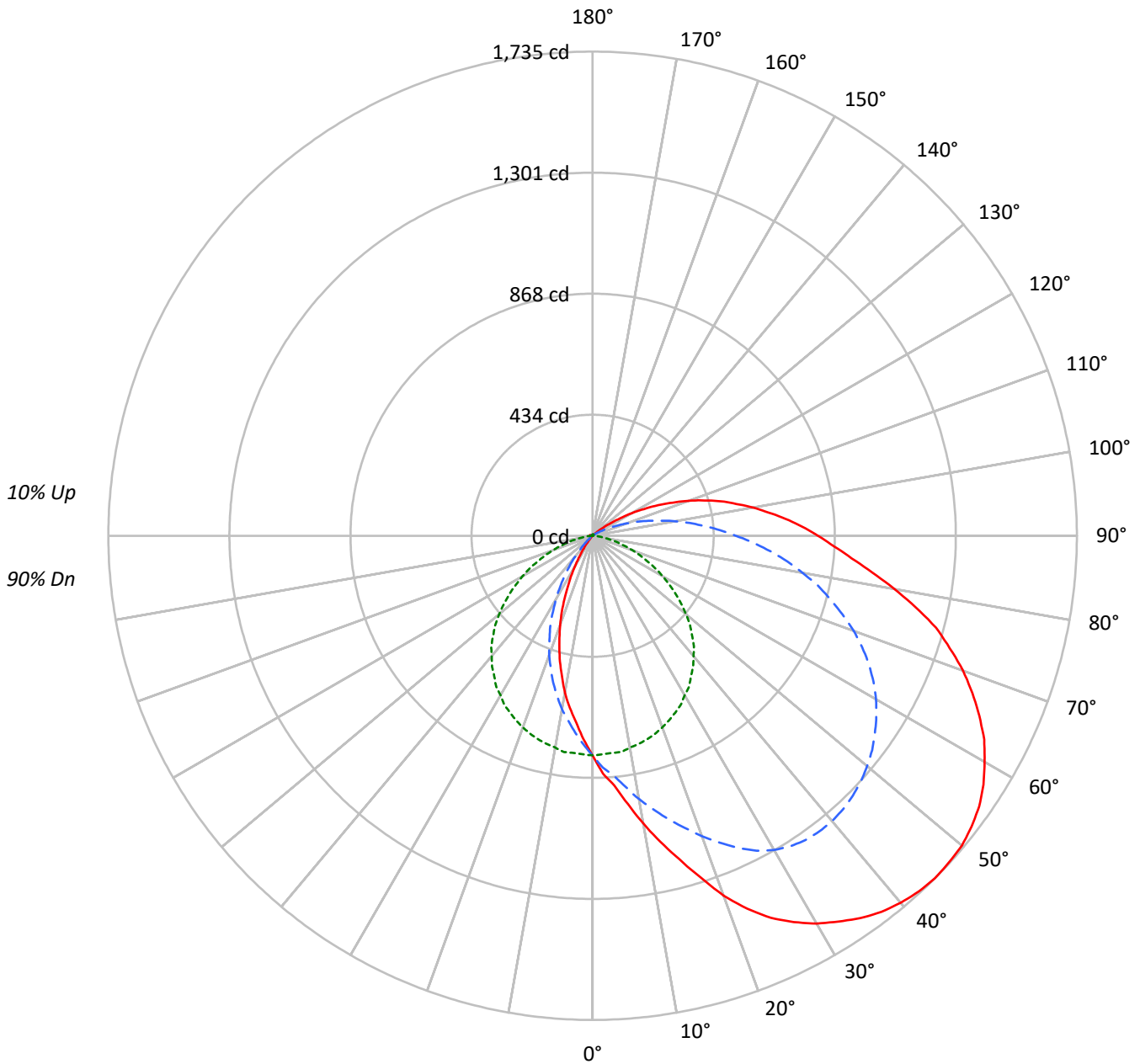
Lumens per Lamp: N/A
Luminaire Lumens: 3890.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 43.3
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	8470	8470	8470
5°	9297	8345	6963
10°	10522	8243	5738
15°	11790	8139	4472
20°	13298	8006	3293
25°	14549	7851	2162
30°	15478	7646	1218
35°	16282	7424	536
40°	16996	7151	129
45°	17608	6809	0
50°	18123	6354	0
55°	18514	5779	0
60°	18710	5109	0
65°	18788	4348	0
70°	18725	3547	0
75°	18487	2615	15
80°	17738	1600	81
85°	17145	763	110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	1.9
10°-20°	225.7	5.8
20°-30°	365.5	9.4
30°-40°	469.5	12.1
40°-50°	531.4	13.7
50°-60°	550.6	14.2
60°-70°	519.2	13.3
70°-80°	435.1	11.2
80°-90°	315.4	8.1
90°-100°	207.3	5.3
100°-110°	119.7	3.1
110°-120°	52.8	1.4
120°-130°	14.3	0.4
130°-140°	3.3	0.1
140°-150°	2.1	0.1
150°-160°	1.5	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	666.5	17.1
0°-40°	1136.0	29.2
0°-60°	2217.9	57.0
0°-90°	3487.7	89.7
90°-120°	379.8	9.8
90°-150°	399.5	10.3
90°-180°	402.0	10.3
0°-180°	3890.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	787	787	787	787	787	
5°	898	862	781	709	673	91
15°	1200	1052	755	545	455	346
25°	1511	1234	700	359	224	698
35°	1673	1331	614	174	55	1049
45°	1735	1318	503	40	0	1340
55°	1691	1234	363	0	0	1510
65°	1529	1093	216	0	0	1512
75°	1274	882	92	1	1	1336
85°	932	639	15	4	6	796
90°	808	513	4	6	7	443
95°	694	400	2	7	9	544
105°	477	207	2	5	8	503
115°	260	69	3	3	5	260
125°	77	10	4	3	4	77
135°	4	3	5	4	3	7
145°	1	4	4	3	3	1
155°	2	4	4	3	1	1
165°	2	3	4	3	0	1
175°	2	4	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°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9
2.5°	853.0	852.0	849.0	844.0	837.0	824.9	814.9	805.9	793.9	783.8	764.8
5°	898.1	893.1	889.1	884.1	868.0	857.0	839.0	818.9	799.9	780.8	742.7
7.5°	970.3	962.3	956.3	942.2	920.2	895.1	867.0	848.0	835.0	781.8	716.7
10°	1047.5	1040.5	1028.4	1003.4	976.3	940.2	900.1	855.0	814.9	770.8	693.6
12.5°	1123.6	1113.6	1096.6	1064.5	1026.4	981.3	926.2	873.1	815.9	763.8	666.6
15°	1199.8	1188.8	1170.8	1131.7	1081.5	1022.4	955.3	888.1	820.9	754.8	638.5
17.5°	1283.0	1268.0	1240.9	1196.8	1133.7	1060.5	981.3	900.1	818.9	743.8	608.4
20°	1372.2	1351.2	1322.1	1263.0	1188.8	1102.6	1007.4	912.1	817.9	730.7	574.4
22.5°	1446.4	1425.4	1393.3	1332.1	1242.9	1137.7	1029.4	920.2	813.9	715.7	542.3
25°	1510.6	1493.5	1458.4	1388.3	1294.0	1174.8	1050.5	926.2	807.9	699.6	508.2
27.5°	1560.7	1544.6	1505.5	1433.4	1337.1	1207.8	1066.5	929.2	799.9	683.6	473.1
30°	1604.8	1588.7	1541.6	1467.5	1366.2	1233.9	1082.6	930.2	789.9	659.6	435.0
32.5°	1638.9	1623.8	1575.7	1496.5	1386.3	1251.9	1091.6	929.2	776.8	642.5	393.9
35°	1672.9	1657.9	1601.8	1517.6	1401.3	1260.0	1098.6	924.2	760.8	614.4	354.8
37.5°	1699.0	1682.0	1624.8	1531.6	1408.3	1262.0	1097.6	917.2	743.8	591.4	315.7
40°	1717.0	1699.0	1637.9	1539.6	1410.3	1259.0	1089.6	905.1	723.7	562.3	274.6
42.5°	1729.1	1709.0	1643.9	1551.7	1406.3	1250.9	1077.5	890.1	701.7	537.3	235.6
45°	1735.1	1714.0	1644.9	1541.6	1399.3	1235.9	1059.5	871.1	677.6	503.2	196.5
47.5°	1732.1	1709.0	1639.9	1530.6	1386.3	1219.9	1039.4	848.0	648.5	473.1	159.4
50°	1727.1	1703.0	1628.8	1516.6	1368.2	1199.8	1017.4	819.9	618.5	436.0	126.3
52.5°	1711.0	1687.0	1616.8	1496.5	1347.2	1176.8	987.3	790.9	586.4	399.9	96.2
55°	1691.0	1668.9	1595.8	1478.5	1320.1	1148.7	959.3	759.8	555.3	362.9	69.2
57.5°	1659.9	1639.9	1569.7	1449.4	1293.0	1117.6	928.2	725.7	516.2	325.8	48.1
60°	1621.8	1601.8	1533.6	1416.3	1262.0	1082.6	894.1	690.6	481.1	288.7	30.1
62.5°	1581.7	1562.7	1491.5	1375.2	1222.9	1045.5	857.0	655.5	444.0	254.6	18.0
65°	1528.6	1510.6	1446.4	1326.1	1179.8	1005.4	815.9	613.4	406.0	216.5	10.0
67.5°	1472.5	1456.4	1391.3	1281.0	1129.7	961.3	773.8	572.3	365.9	183.4	5.0
70°	1412.3	1392.3	1332.1	1219.9	1078.5	911.1	727.7	530.2	327.8	151.4	0.0
72.5°	1342.2	1327.1	1269.0	1162.7	1019.4	858.0	680.6	484.1	285.7	120.3	1.0
75°	1274.0	1255.0	1201.8	1101.6	961.3	801.9	628.5	441.0	244.6	92.2	1.0
77.5°	1185.8	1179.8	1129.7	1032.4	906.1	747.8	571.3	388.9	205.5	66.2	1.0
80°	1097.6	1091.6	1052.5	963.3	842.0	683.6	518.2	339.8	167.4	44.1	1.0
82.5°	1010.4	1002.4	965.3	891.1	776.8	629.5	463.1	290.7	132.3	27.1	1.0
85°	932.2	922.2	882.1	813.9	709.7	568.3	406.0	242.6	98.2	15.0	2.0
87.5°	865.0	858.0	813.9	743.8	641.5	511.2	355.8	196.5	69.2	7.0	3.0
90°	807.9	792.9	753.8	679.6	577.4	448.1	302.7	157.4	46.1	4.0	4.0
92.5°	751.8	738.7	695.6	619.5	520.2	393.9	251.6	120.3	29.1	2.0	5.0
95°	693.6	679.6	637.5	567.3	462.1	338.8	206.5	88.2	16.0	2.0	5.0
97.5°	636.5	623.5	579.4	509.2	410.0	290.7	163.4	62.1	8.0	2.0	4.0
100°	583.4	568.3	528.2	458.1	357.8	242.6	126.3	40.1	5.0	2.0	4.0
102.5°	527.2	515.2	474.1	406.0	303.7	197.5	94.2	25.1	2.0	2.0	3.0
105°	477.1	462.1	422.0	351.8	258.6	155.4	66.2	15.0	2.0	2.0	3.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	310.7	298.7	263.6	204.5	131.3	61.1	18.0	3.0	3.0	3.0	3.0
115°	259.6	241.6	210.5	158.4	97.2	40.1	9.0	3.0	3.0	3.0	3.0
117.5°	207.5	192.5	170.4	120.3	64.2	26.1	5.0	3.0	3.0	3.0	3.0
120°	162.4	148.3	123.3	83.2	43.1	15.0	2.0	3.0	3.0	3.0	3.0
122.5°	116.3	105.2	83.2	54.1	26.1	7.0	3.0	3.0	4.0	4.0	3.0
125°	77.2	71.2	55.1	33.1	16.0	3.0	3.0	3.0	4.0	4.0	3.0
127.5°	50.1	45.1	32.1	19.0	7.0	3.0	3.0	4.0	4.0	4.0	3.0
130°	28.1	25.1	19.0	11.0	3.0	3.0	3.0	4.0	4.0	4.0	3.0
132.5°	16.0	15.0	10.0	2.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0
135°	4.0	2.0	2.0	2.0	3.0	3.0	4.0	4.0	5.0	5.0	4.0
137.5°	1.0	1.0	2.0	2.0	3.0	3.0	4.0	5.0	5.0	5.0	4.0
140°	1.0	1.0	2.0	3.0	3.0	3.0	4.0	5.0	5.0	5.0	4.0
142.5°	1.0	2.0	2.0	3.0	3.0	4.0	4.0	5.0	5.0	4.0	4.0
145°	1.0	2.0	2.0	3.0	3.0	4.0	4.0	5.0	4.0	4.0	4.0
147.5°	2.0	2.0	2.0	3.0	3.0	4.0	4.0	5.0	5.0	4.0	4.0
150°	1.0	2.0	2.0	3.0	4.0	4.0	4.0	5.0	4.0	4.0	4.0
152.5°	1.0	2.0	2.0	3.0	4.0	4.0	4.0	5.0	4.0	4.0	4.0
155°	2.0	2.0	2.0	3.0	4.0	4.0	4.0	5.0	4.0	4.0	5.0
157.5°	2.0	2.0	2.0	3.0	4.0	4.0	4.0	5.0	4.0	4.0	5.0
160°	2.0	2.0	2.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0
162.5°	2.0	2.0	2.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0
165°	2.0	2.0	2.0	2.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0
167.5°	2.0	2.0	2.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0
170°	2.0	2.0	2.0	3.0	3.0	3.0	4.0	5.0	5.0	5.0	5.0
172.5°	2.0	2.0	2.0	3.0	3.0	4.0	4.0	5.0	5.0	5.0	5.0
175°	2.0	2.0	2.0	3.0	3.0	4.0	4.0	5.0	5.0	5.0	5.0
177.5°	1.0	2.0	2.0	3.0	3.0	4.0	4.0	5.0	5.0	5.0	4.0
180°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	786.9	786.9	786.9
2.5°	748.8	734.7	730.7
5°	708.7	685.6	672.6
7.5°	668.6	637.5	622.5
10°	631.5	587.4	571.3
12.5°	587.4	536.3	511.2
15°	545.3	479.1	455.1
17.5°	498.2	424.0	395.9
20°	454.1	368.9	339.8
22.5°	404.0	314.7	282.7
25°	358.8	260.6	224.5
27.5°	308.7	205.5	174.4
30°	261.6	157.4	126.3
32.5°	216.5	115.3	87.2
35°	174.4	78.2	55.1
37.5°	134.3	48.1	28.1
40°	97.2	25.1	13.0
42.5°	65.2	12.0	7.0
45°	40.1	6.0	0.0
47.5°	23.1	0.0	0.0
50°	12.0	0.0	0.0
52.5°	5.0	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	3.0
80°	2.0	4.0	5.0
82.5°	4.0	5.0	5.0
85°	4.0	5.0	6.0
87.5°	5.0	6.0	7.0
90°	6.0	7.0	7.0
92.5°	6.0	8.0	8.0
95°	7.0	8.0	9.0
97.5°	8.0	9.0	9.0
100°	7.0	9.0	10.0
102.5°	6.0	9.0	9.0
105°	5.0	7.0	8.0



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	4.0	5.0	5.0
115°	3.0	4.0	5.0
117.5°	3.0	4.0	4.0
120°	3.0	3.0	4.0
122.5°	3.0	3.0	4.0
125°	3.0	3.0	4.0
127.5°	4.0	3.0	3.0
130°	3.0	3.0	3.0
132.5°	4.0	3.0	3.0
135°	4.0	3.0	3.0
137.5°	4.0	3.0	3.0
140°	4.0	3.0	3.0
142.5°	4.0	3.0	3.0
145°	3.0	3.0	3.0
147.5°	3.0	3.0	3.0
150°	3.0	3.0	2.0
152.5°	3.0	2.0	2.0
155°	3.0	2.0	1.0
157.5°	4.0	2.0	1.0
160°	3.0	2.0	1.0
162.5°	3.0	2.0	1.0
165°	3.0	2.0	0.0
167.5°	3.0	2.0	1.0
170°	3.0	2.0	1.0
172.5°	3.0	2.0	1.0
175°	3.0	1.0	1.0
177.5°	3.0	1.0	1.0
180°	3.0	3.0	3.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	421.0	409.0	368.9	302.7	211.5	118.3	44.1	8.0	2.0	3.0	3.0
110°	366.9	356.8	315.7	251.6	170.4	88.2	29.1	5.0	3.0	3.0	3.0





107.5°	4.0	6.0	7.0
110°	4.0	5.0	6.0



(END OF REPORT)