

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: P551268

Luminaire Tested: **FCC-X-2-LD4-2HI-35-UNV-80-96-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: P551268
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-80-96-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

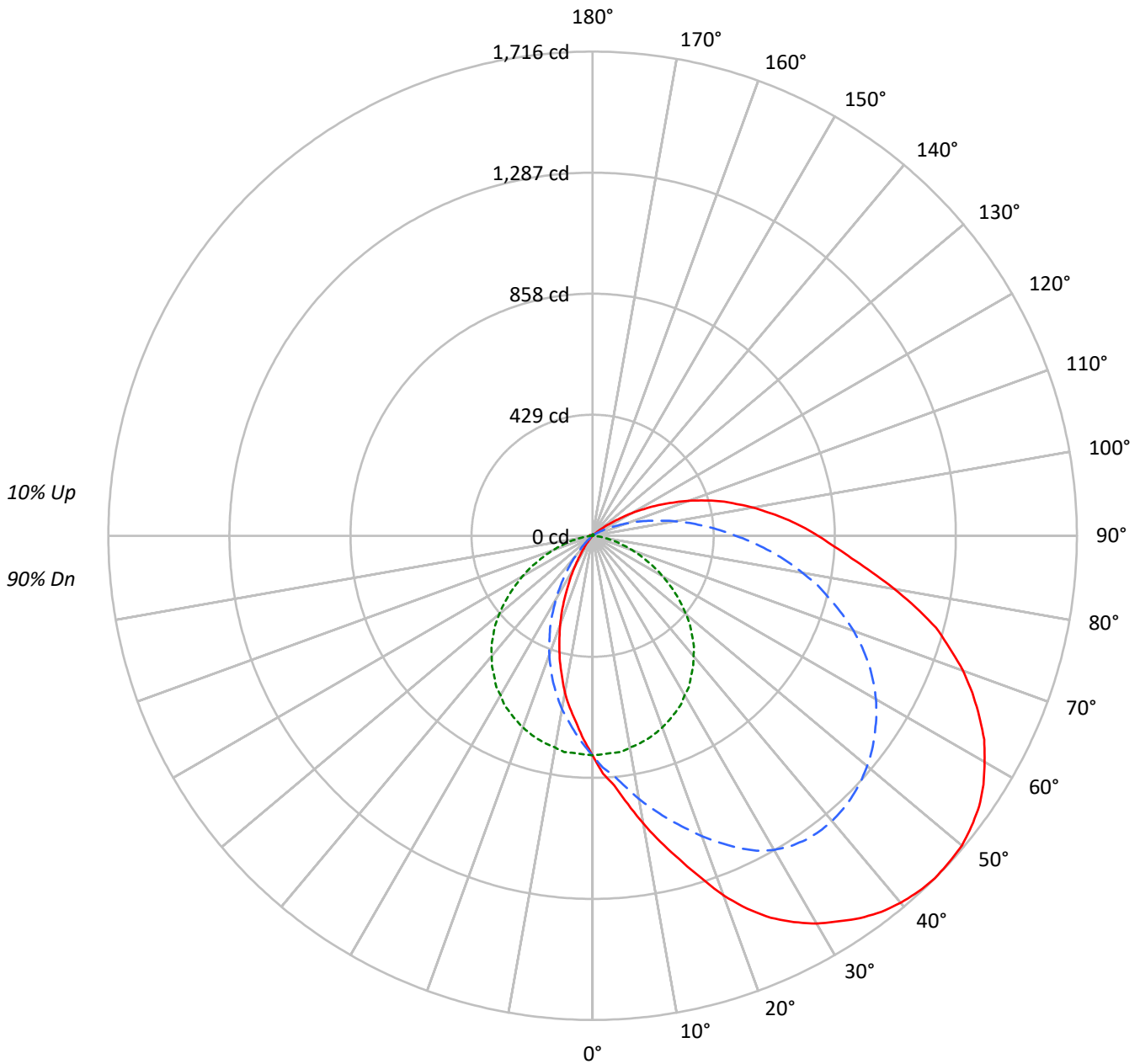
Lumens per Lamp: N/A
Luminaire Lumens: 3847.1 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 43.3
Input Voltage (V): NR
Input Current (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°	8376	8376	8376
5°	9195	8253	6885
10°	10405	8152	5675
15°	11661	8048	4422
20°	13152	7917	3256
25°	14388	7765	2138
30°	15306	7562	1205
35°	16102	7343	530
40°	16808	7072	128
45°	17413	6733	0
50°	17922	6285	0
55°	18309	5713	0
60°	18504	5052	0
65°	18580	4300	0
70°	18518	3507	0
75°	18282	2586	15
80°	17543	1581	81
85°	16955	758	109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	1.9
10°-20°	223.2	5.8
20°-30°	361.4	9.4
30°-40°	464.3	12.1
40°-50°	525.5	13.7
50°-60°	544.5	14.2
60°-70°	513.5	13.3
70°-80°	430.3	11.2
80°-90°	311.9	8.1
90°-100°	205.0	5.3
100°-110°	118.4	3.1
110°-120°	52.3	1.4
120°-130°	14.2	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°	659.1	17.1
0°-40°	1123.4	29.2
0°-60°	2193.4	57.0
0°-90°	3449.2	89.7
90°-120°	375.7	9.8
90°-150°	395.3	10.3
90°-180°	398.0	10.3
0°-180°	3847.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	778	778	778	778	778	
5°	888	853	772	701	665	90
15°	1187	1040	746	539	450	342
25°	1494	1221	692	355	222	690
35°	1654	1316	608	172	54	1038
45°	1716	1303	498	40	0	1325
55°	1672	1221	359	0	0	1493
65°	1512	1080	214	0	0	1496
75°	1260	872	91	1	1	1321
85°	922	632	15	4	6	787
90°	799	507	4	6	7	438
95°	686	396	2	7	9	538
105°	472	205	2	5	8	498
115°	257	68	3	3	5	257
125°	76	9	4	3	4	76
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°	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2
2.5°	843.6	842.6	839.6	834.7	827.7	815.8	805.9	797.0	785.1	775.2	756.3
5°	888.2	883.2	879.3	874.3	858.4	847.5	829.7	809.9	791.0	772.2	734.5
7.5°	959.6	951.6	945.7	931.8	910.0	885.2	857.5	838.6	825.7	773.2	708.8
10°	1035.9	1028.9	1017.1	992.3	965.5	929.8	890.2	845.6	805.9	762.3	686.0
12.5°	1111.2	1101.3	1084.5	1052.7	1015.1	970.5	915.9	863.4	806.9	755.4	659.2
15°	1186.6	1175.7	1157.8	1119.2	1069.6	1011.1	944.7	878.3	811.9	746.4	631.4
17.5°	1268.8	1254.0	1227.2	1183.6	1121.1	1048.8	970.5	890.2	809.9	735.5	601.7
20°	1357.1	1336.2	1307.5	1249.0	1175.7	1090.4	996.2	902.1	808.9	722.6	568.0
22.5°	1430.4	1409.6	1377.9	1317.4	1229.2	1125.1	1018.0	910.0	804.9	707.8	536.3
25°	1493.9	1477.0	1442.3	1372.9	1279.7	1161.8	1038.9	915.9	799.0	691.9	502.6
27.5°	1543.4	1527.6	1488.9	1417.5	1322.4	1194.5	1054.7	918.9	791.0	676.1	467.9
30°	1587.0	1571.2	1524.6	1451.2	1351.1	1220.3	1070.6	919.9	781.1	652.3	430.2
32.5°	1620.7	1605.9	1558.3	1480.0	1370.9	1238.1	1079.5	918.9	768.2	635.4	389.6
35°	1654.4	1639.6	1584.1	1500.8	1385.8	1246.0	1086.4	914.0	752.4	607.7	350.9
37.5°	1680.2	1663.4	1606.9	1514.7	1392.8	1248.0	1085.5	907.0	735.5	584.9	312.3
40°	1698.1	1680.2	1619.8	1522.6	1394.7	1245.0	1077.5	895.1	715.7	556.1	271.6
42.5°	1710.0	1690.1	1625.7	1534.5	1390.8	1237.1	1065.6	880.3	693.9	531.3	233.0
45°	1715.9	1695.1	1626.7	1524.6	1383.8	1222.2	1047.8	861.4	670.1	497.6	194.3
47.5°	1712.9	1690.1	1621.7	1513.7	1370.9	1206.4	1028.0	838.6	641.4	467.9	157.6
50°	1708.0	1684.2	1610.8	1499.8	1353.1	1186.6	1006.2	810.9	611.6	431.2	124.9
52.5°	1692.1	1668.3	1598.9	1480.0	1332.3	1163.8	976.4	782.1	579.9	395.5	95.2
55°	1672.3	1650.5	1578.1	1462.1	1305.5	1136.0	948.7	751.4	549.2	358.8	68.4
57.5°	1641.6	1621.7	1552.3	1433.4	1278.8	1105.3	917.9	717.7	510.5	322.2	47.6
60°	1603.9	1584.1	1516.7	1400.7	1248.0	1070.6	884.2	683.0	475.8	285.5	29.7
62.5°	1564.2	1545.4	1475.0	1360.0	1209.4	1033.9	847.5	648.3	439.1	251.8	17.8
65°	1511.7	1493.9	1430.4	1311.5	1166.7	994.3	806.9	606.7	401.5	214.1	9.9
67.5°	1456.2	1440.3	1375.9	1266.9	1117.2	950.6	765.3	566.0	361.8	181.4	5.0
70°	1396.7	1376.9	1317.4	1206.4	1066.6	901.1	719.7	524.4	324.1	149.7	0.0
72.5°	1327.3	1312.5	1255.0	1149.9	1008.1	848.5	673.1	478.8	282.5	119.0	1.0
75°	1259.9	1241.1	1188.5	1089.4	950.6	793.0	621.5	436.2	241.9	91.2	1.0
77.5°	1172.7	1166.7	1117.2	1021.0	896.1	739.5	565.0	384.6	203.2	65.4	1.0
80°	1085.5	1079.5	1040.8	952.6	832.7	676.1	512.5	336.0	165.5	43.6	1.0
82.5°	999.2	991.3	954.6	881.2	768.2	622.5	458.0	287.5	130.8	26.8	1.0
85°	921.9	912.0	872.3	804.9	701.8	562.1	401.5	239.9	97.1	14.9	2.0
87.5°	855.5	848.5	804.9	735.5	634.4	505.6	351.9	194.3	68.4	6.9	3.0
90°	799.0	784.1	745.4	672.1	571.0	443.1	299.4	155.6	45.6	4.0	4.0
92.5°	743.5	730.6	687.9	612.6	514.5	389.6	248.8	119.0	28.7	2.0	5.0
95°	686.0	672.1	630.5	561.1	457.0	335.1	204.2	87.2	15.9	2.0	5.0
97.5°	629.5	616.6	573.0	503.6	405.4	287.5	161.6	61.5	7.9	2.0	4.0
100°	576.9	562.1	522.4	453.0	353.9	239.9	124.9	39.7	5.0	2.0	4.0
102.5°	521.4	509.5	468.9	401.5	300.4	195.3	93.2	24.8	2.0	2.0	3.0
105°	471.8	457.0	417.3	347.9	255.8	153.6	65.4	14.9	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°	307.3	295.4	260.7	202.2	129.9	60.5	17.8	3.0	3.0	3.0	3.0
115°	256.7	238.9	208.2	156.6	96.2	39.7	8.9	3.0	3.0	3.0	3.0
117.5°	205.2	190.3	168.5	119.0	63.4	25.8	5.0	3.0	3.0	3.0	3.0
120°	160.6	146.7	121.9	82.3	42.6	14.9	2.0	3.0	3.0	3.0	3.0
122.5°	115.0	104.1	82.3	53.5	25.8	6.9	3.0	3.0	4.0	4.0	3.0
125°	76.3	70.4	54.5	32.7	15.9	3.0	3.0	3.0	4.0	4.0	3.0
127.5°	49.6	44.6	31.7	18.8	6.9	3.0	3.0	4.0	4.0	4.0	3.0
130°	27.8	24.8	18.8	10.9	3.0	3.0	3.0	4.0	4.0	4.0	3.0
132.5°	15.9	14.9	9.9	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°	778.2	778.2	778.2
2.5°	740.5	726.6	722.6
5°	700.8	678.0	665.1
7.5°	661.2	630.5	615.6
10°	624.5	580.9	565.0
12.5°	580.9	530.3	505.6
15°	539.3	473.8	450.0
17.5°	492.7	419.3	391.6
20°	449.1	364.8	336.0
22.5°	399.5	311.3	279.5
25°	354.9	257.7	222.0
27.5°	305.3	203.2	172.5
30°	258.7	155.6	124.9
32.5°	214.1	114.0	86.2
35°	172.5	77.3	54.5
37.5°	132.8	47.6	27.8
40°	96.2	24.8	12.9
42.5°	64.4	11.9	6.9
45°	39.7	5.9	0.0
47.5°	22.8	0.0	0.0
50°	11.9	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	5.9
87.5°	5.0	5.9	6.9
90°	5.9	6.9	6.9
92.5°	5.9	7.9	7.9
95°	6.9	7.9	8.9
97.5°	7.9	8.9	8.9
100°	6.9	8.9	9.9
102.5°	5.9	8.9	8.9
105°	5.0	6.9	7.9



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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°	416.3	404.4	364.8	299.4	209.2	117.0	43.6	7.9	2.0	3.0	3.0
110°	362.8	352.9	312.3	248.8	168.5	87.2	28.7	5.0	3.0	3.0	3.0





107.5°	4.0	5.9	6.9
110°	4.0	5.0	5.9



(END OF REPORT)