

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: P551262

Luminaire Tested: **FCC-X-2-LD4-2HI-35-UNV-80-87-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: P551262
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-80-87-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

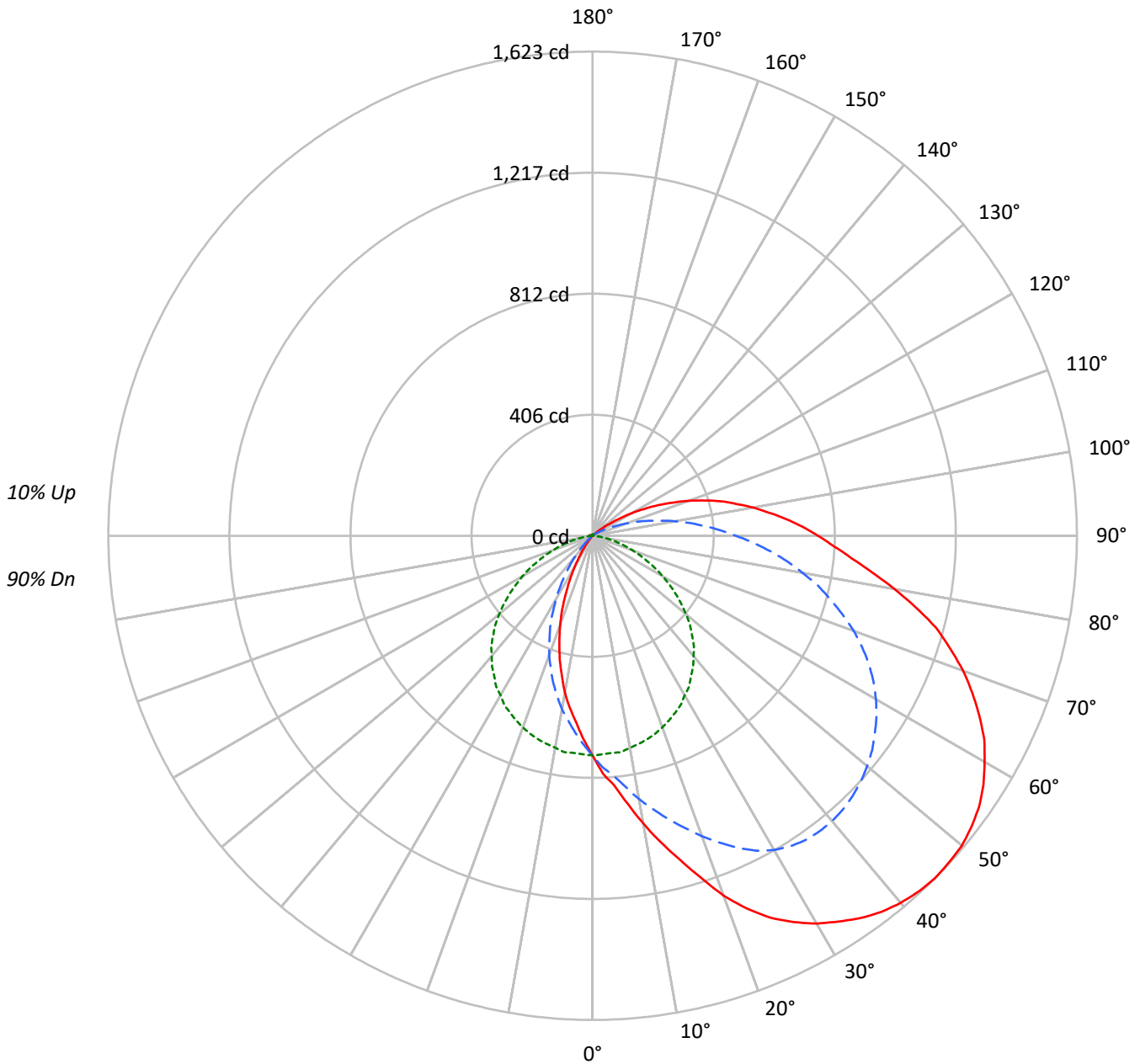
Lumens per Lamp: N/A
Luminaire Lumens: 3639.1 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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°	7923	7923	7923
5°	8698	7808	6514
10°	9843	7712	5369
15°	11030	7614	4183
20°	12440	7490	3081
25°	13610	7345	2023
30°	14479	7153	1139
35°	15232	6945	502
40°	15900	6689	121
45°	16472	6369	0
50°	16953	5945	0
55°	17319	5404	0
60°	17504	4780	0
65°	17576	4067	0
70°	17517	3317	0
75°	17294	2447	13
80°	16594	1498	76
85°	16038	717	103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.9
10°-20°	211.1	5.8
20°-30°	341.9	9.4
30°-40°	439.2	12.1
40°-50°	497.1	13.7
50°-60°	515.0	14.2
60°-70°	485.7	13.3
70°-80°	407.1	11.2
80°-90°	295.1	8.1
90°-100°	193.9	5.3
100°-110°	112.0	3.1
110°-120°	49.4	1.4
120°-130°	13.4	0.4
130°-140°	3.1	0.1
140°-150°	2.0	0.1
150°-160°	1.4	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	623.5	17.1
0°-40°	1062.7	29.2
0°-60°	2074.8	57.0
0°-90°	3262.7	89.7
90°-120°	355.4	9.8
90°-150°	373.8	10.3
90°-180°	376.0	10.3
0°-180°	3639.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	736	736	736	736	736	
5°	840	807	730	663	629	85
15°	1122	984	706	510	426	324
25°	1413	1155	654	336	210	653
35°	1565	1245	575	163	52	982
45°	1623	1233	471	38	0	1253
55°	1582	1155	339	0	0	1413
65°	1430	1022	202	0	0	1415
75°	1192	825	86	1	1	1250
85°	872	598	14	4	6	745
90°	756	480	4	6	7	414
95°	649	375	2	7	8	509
105°	446	194	2	5	8	471
115°	243	64	3	3	5	243
125°	72	9	4	3	4	72
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°	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1
2.5°	798.0	797.0	794.2	789.5	783.0	771.7	762.3	753.9	742.6	733.3	715.5
5°	840.2	835.5	831.7	827.0	812.0	801.7	784.8	766.1	748.3	730.5	694.8
7.5°	907.7	900.2	894.6	881.4	860.8	837.4	811.1	793.3	781.1	731.4	670.4
10°	979.9	973.3	962.1	938.6	913.3	879.5	842.0	799.8	762.3	721.1	648.9
12.5°	1051.1	1041.8	1025.8	995.8	960.2	918.0	866.4	816.7	763.3	714.5	623.6
15°	1122.4	1112.1	1095.2	1058.6	1011.8	956.4	893.6	830.8	768.0	706.1	597.3
17.5°	1200.2	1186.2	1160.9	1119.6	1060.5	992.1	918.0	842.0	766.1	695.8	569.2
20°	1283.7	1264.0	1236.8	1181.5	1112.1	1031.5	942.4	853.3	765.2	683.6	537.3
22.5°	1353.1	1333.4	1303.4	1246.2	1162.7	1064.3	963.0	860.8	761.4	669.5	507.3
25°	1413.1	1397.1	1364.3	1298.7	1210.6	1099.0	982.7	866.4	755.8	654.5	475.4
27.5°	1460.0	1445.0	1408.4	1340.9	1250.9	1129.9	997.7	869.2	748.3	639.5	442.6
30°	1501.2	1486.2	1442.2	1372.8	1278.1	1154.3	1012.7	870.2	738.9	617.0	407.0
32.5°	1533.1	1519.0	1474.0	1400.0	1296.8	1171.2	1021.1	869.2	726.7	601.1	368.5
35°	1565.0	1550.9	1498.4	1419.7	1310.9	1178.7	1027.7	864.5	711.7	574.8	331.9
37.5°	1589.4	1573.4	1520.0	1432.8	1317.4	1180.5	1026.8	858.0	695.8	553.2	295.4
40°	1606.3	1589.4	1532.2	1440.3	1319.3	1177.7	1019.3	846.7	677.0	526.0	256.9
42.5°	1617.5	1598.8	1537.8	1451.5	1315.6	1170.2	1008.0	832.7	656.4	502.6	220.4
45°	1623.1	1603.4	1538.7	1442.2	1309.0	1156.2	991.1	814.8	633.9	470.7	183.8
47.5°	1620.3	1598.8	1534.1	1431.8	1296.8	1141.2	972.4	793.3	606.7	442.6	149.1
50°	1615.6	1593.1	1523.7	1418.7	1279.9	1122.4	951.7	767.0	578.6	407.9	118.1
52.5°	1600.6	1578.1	1512.5	1400.0	1260.2	1100.8	923.6	739.8	548.5	374.1	90.0
55°	1581.9	1561.2	1492.8	1383.1	1234.9	1074.6	897.4	710.8	519.5	339.4	64.7
57.5°	1552.8	1534.1	1468.4	1355.9	1209.6	1045.5	868.3	678.9	482.9	304.7	45.0
60°	1517.2	1498.4	1434.7	1324.9	1180.5	1012.7	836.4	646.1	450.1	270.1	28.1
62.5°	1479.7	1461.9	1395.3	1286.5	1144.0	978.0	801.7	613.2	415.4	238.2	16.9
65°	1430.0	1413.1	1353.1	1240.6	1103.7	940.5	763.3	573.9	379.8	202.5	9.4
67.5°	1377.5	1362.5	1301.5	1198.4	1056.8	899.2	723.9	535.4	342.3	171.6	4.7
70°	1321.2	1302.4	1246.2	1141.2	1008.9	852.4	680.8	496.0	306.6	141.6	0.0
72.5°	1255.6	1241.5	1187.1	1087.7	953.6	802.7	636.7	452.9	267.2	112.5	0.9
75°	1191.8	1174.0	1124.3	1030.5	899.2	750.1	587.9	412.6	228.8	86.3	0.9
77.5°	1109.3	1103.7	1056.8	965.8	847.7	699.5	534.5	363.8	192.2	61.9	0.9
80°	1026.8	1021.1	984.6	901.1	787.7	639.5	484.8	317.9	156.6	41.3	0.9
82.5°	945.2	937.7	903.0	833.6	726.7	588.9	433.2	271.9	123.8	25.3	0.9
85°	872.0	862.7	825.2	761.4	663.9	531.7	379.8	226.9	91.9	14.1	1.9
87.5°	809.2	802.7	761.4	695.8	600.1	478.2	332.9	183.8	64.7	6.6	2.8
90°	755.8	741.7	705.1	635.8	540.1	419.1	283.2	147.2	43.1	3.8	3.8
92.5°	703.3	691.1	650.8	579.5	486.7	368.5	235.4	112.5	27.2	1.9	4.7
95°	648.9	635.8	596.4	530.7	432.3	316.9	193.2	82.5	15.0	1.9	4.7
97.5°	595.4	583.2	542.0	476.3	383.5	271.9	152.8	58.1	7.5	1.9	3.8
100°	545.7	531.7	494.2	428.5	334.8	226.9	118.1	37.5	4.7	1.9	3.8
102.5°	493.2	482.0	443.5	379.8	284.1	184.7	88.1	23.4	1.9	1.9	2.8
105°	446.3	432.3	394.8	329.1	241.9	145.3	61.9	14.1	1.9	1.9	2.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	290.7	279.4	246.6	191.3	122.8	57.2	16.9	2.8	2.8	2.8	2.8
115°	242.9	226.0	196.9	148.2	91.0	37.5	8.4	2.8	2.8	2.8	2.8
117.5°	194.1	180.0	159.4	112.5	60.0	24.4	4.7	2.8	2.8	2.8	2.8
120°	151.9	138.8	115.3	77.8	40.3	14.1	1.9	2.8	2.8	2.8	2.8
122.5°	108.8	98.5	77.8	50.6	24.4	6.6	2.8	2.8	3.8	3.8	2.8
125°	72.2	66.6	51.6	30.9	15.0	2.8	2.8	2.8	3.8	3.8	2.8
127.5°	46.9	42.2	30.0	17.8	6.6	2.8	2.8	3.8	3.8	3.8	2.8
130°	26.3	23.4	17.8	10.3	2.8	2.8	2.8	3.8	3.8	3.8	2.8
132.5°	15.0	14.1	9.4	1.9	2.8	2.8	2.8	3.8	3.8	3.8	3.8
135°	3.8	1.9	1.9	1.9	2.8	2.8	3.8	3.8	4.7	4.7	3.8
137.5°	0.9	0.9	1.9	1.9	2.8	2.8	3.8	4.7	4.7	4.7	3.8
140°	0.9	0.9	1.9	2.8	2.8	2.8	3.8	4.7	4.7	4.7	3.8
142.5°	0.9	1.9	1.9	2.8	2.8	3.8	3.8	4.7	4.7	3.8	3.8
145°	0.9	1.9	1.9	2.8	2.8	3.8	3.8	4.7	3.8	3.8	3.8
147.5°	1.9	1.9	1.9	2.8	2.8	3.8	3.8	4.7	4.7	3.8	3.8
150°	0.9	1.9	1.9	2.8	3.8	3.8	3.8	4.7	3.8	3.8	3.8
152.5°	0.9	1.9	1.9	2.8	3.8	3.8	3.8	4.7	3.8	3.8	3.8
155°	1.9	1.9	1.9	2.8	3.8	3.8	3.8	4.7	3.8	3.8	4.7
157.5°	1.9	1.9	1.9	2.8	3.8	3.8	3.8	4.7	3.8	3.8	4.7
160°	1.9	1.9	1.9	2.8	2.8	3.8	3.8	3.8	3.8	3.8	3.8
162.5°	1.9	1.9	1.9	2.8	2.8	3.8	3.8	3.8	3.8	3.8	3.8
165°	1.9	1.9	1.9	1.9	2.8	2.8	3.8	3.8	3.8	3.8	3.8
167.5°	1.9	1.9	1.9	2.8	2.8	2.8	3.8	3.8	3.8	3.8	3.8
170°	1.9	1.9	1.9	2.8	2.8	2.8	3.8	4.7	4.7	4.7	4.7
172.5°	1.9	1.9	1.9	2.8	2.8	3.8	3.8	4.7	4.7	4.7	4.7
175°	1.9	1.9	1.9	2.8	2.8	3.8	3.8	4.7	4.7	4.7	4.7
177.5°	0.9	1.9	1.9	2.8	2.8	3.8	3.8	4.7	4.7	4.7	3.8
180°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	736.1	736.1	736.1
2.5°	700.5	687.3	683.6
5°	662.9	641.4	629.2
7.5°	625.4	596.4	582.3
10°	590.7	549.5	534.5
12.5°	549.5	501.7	478.2
15°	510.1	448.2	425.7
17.5°	466.0	396.6	370.4
20°	424.8	345.1	317.9
22.5°	377.9	294.4	264.4
25°	335.7	243.8	210.0
27.5°	288.8	192.2	163.2
30°	244.7	147.2	118.1
32.5°	202.5	107.8	81.6
35°	163.2	73.1	51.6
37.5°	125.6	45.0	26.3
40°	91.0	23.4	12.2
42.5°	60.9	11.3	6.6
45°	37.5	5.6	0.0
47.5°	21.6	0.0	0.0
50°	11.3	0.0	0.0
52.5°	4.7	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°	0.9	0.9	0.9
77.5°	0.9	1.9	2.8
80°	1.9	3.8	4.7
82.5°	3.8	4.7	4.7
85°	3.8	4.7	5.6
87.5°	4.7	5.6	6.6
90°	5.6	6.6	6.6
92.5°	5.6	7.5	7.5
95°	6.6	7.5	8.4
97.5°	7.5	8.4	8.4
100°	6.6	8.4	9.4
102.5°	5.6	8.4	8.4
105°	4.7	6.6	7.5



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	3.8	4.7	4.7
115°	2.8	3.8	4.7
117.5°	2.8	3.8	3.8
120°	2.8	2.8	3.8
122.5°	2.8	2.8	3.8
125°	2.8	2.8	3.8
127.5°	3.8	2.8	2.8
130°	2.8	2.8	2.8
132.5°	3.8	2.8	2.8
135°	3.8	2.8	2.8
137.5°	3.8	2.8	2.8
140°	3.8	2.8	2.8
142.5°	3.8	2.8	2.8
145°	2.8	2.8	2.8
147.5°	2.8	2.8	2.8
150°	2.8	2.8	1.9
152.5°	2.8	1.9	1.9
155°	2.8	1.9	0.9
157.5°	3.8	1.9	0.9
160°	2.8	1.9	0.9
162.5°	2.8	1.9	0.9
165°	2.8	1.9	0.0
167.5°	2.8	1.9	0.9
170°	2.8	1.9	0.9
172.5°	2.8	1.9	0.9
175°	2.8	0.9	0.9
177.5°	2.8	0.9	0.9
180°	2.8	2.8	2.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	393.8	382.6	345.1	283.2	197.9	110.6	41.3	7.5	1.9	2.8	2.8
110°	343.2	333.8	295.4	235.4	159.4	82.5	27.2	4.7	2.8	2.8	2.8





107.5°	3.8	5.6	6.6
110°	3.8	4.7	5.6



(END OF REPORT)