

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: P551398

Luminaire Tested: **FCC-X-2-LD4-2HI-50-UNV-80-97-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: P551398
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-50-UNV-80-97-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 5000K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

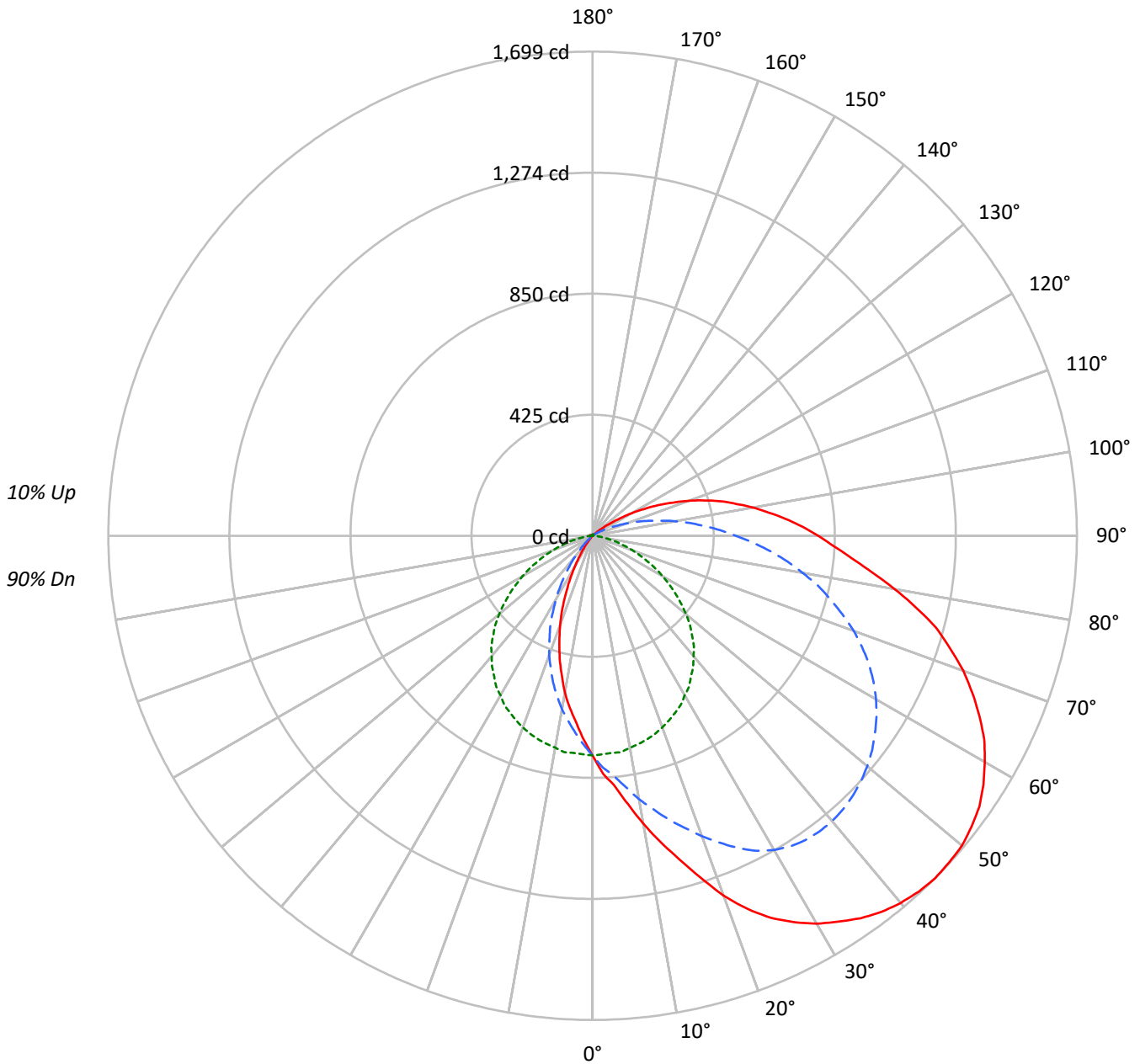
Lumens per Lamp: N/A
Luminaire Lumens: 3809.9 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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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CATALOG NUMBER: FCC-X-2-LD4-2HI-50-UNV-80-97-ED1D

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	90																			
1	103	96	91	86	99	93	88	83	87	83	79	81	78	74	76	73	70	67																			
2	92	82	74	67	88	79	72	65	74	67	62	69	64	59	64	60	56	53																			
3	83	71	61	54	79	68	60	53	64	56	50	59	53	48	55	50	46	43																			
4	75	62	52	44	72	60	51	44	56	48	42	52	45	40	49	43	38	36																			
5	69	55	45	38	66	53	44	37	50	42	35	46	39	34	43	38	33	30																			
6	63	49	39	32	61	47	38	32	44	36	31	42	35	29	39	33	28	26																			
7	58	44	35	28	56	43	34	28	40	32	27	38	31	26	36	29	25	23																			
8	54	40	31	25	52	39	30	24	37	29	24	34	28	23	32	26	22	20																			
9	51	36	28	22	49	35	27	22	33	26	21	32	25	20	30	24	20	18																			
10	47	33	25	20	45	33	25	19	31	24	19	29	23	18	28	22	18	16																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8296	8296	8296
5°	9106	8174	6820
10°	10305	8074	5621
15°	11549	7971	4380
20°	13025	7841	3225
25°	14249	7691	2118
30°	15160	7489	1193
35°	15947	7271	526
40°	16646	7005	127
45°	17246	6668	0
50°	17750	6225	0
55°	18133	5659	0
60°	18326	5003	0
65°	18402	4260	0
70°	18340	3472	0
75°	18107	2561	15
80°	17373	1567	79
85°	16792	747	109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	1.9
10°-20°	221.0	5.8
20°-30°	357.9	9.4
30°-40°	459.8	12.1
40°-50°	520.5	13.7
50°-60°	539.2	14.2
60°-70°	508.6	13.3
70°-80°	426.2	11.2
80°-90°	308.9	8.1
90°-100°	203.0	5.3
100°-110°	117.3	3.1
110°-120°	51.7	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°	652.8	17.1
0°-40°	1112.6	29.2
0°-60°	2172.3	57.0
0°-90°	3416.0	89.7
90°-120°	372.0	9.8
90°-150°	391.3	10.3
90°-180°	394.0	10.3
0°-180°	3809.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	771	771	771	771	771	
5°	880	845	765	694	659	89
15°	1175	1030	739	534	446	339
25°	1480	1209	685	352	220	684
35°	1638	1303	602	171	54	1028
45°	1699	1290	493	39	0	1312
55°	1656	1209	355	0	0	1479
65°	1497	1070	212	0	0	1481
75°	1248	863	90	1	1	1309
85°	913	626	15	4	6	780
90°	791	502	4	6	7	434
95°	679	392	2	7	9	533
105°	467	203	2	5	8	493
115°	254	67	3	3	5	255
125°	76	9	4	3	4	76
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°	770.7	770.7	770.7	770.7	770.7	770.7	770.7	770.7	770.7	770.7	770.7
2.5°	835.5	834.5	831.5	826.6	819.8	808.0	798.2	789.3	777.5	767.7	749.1
5°	879.6	874.7	870.8	865.9	850.2	839.4	821.7	802.1	783.4	764.8	727.5
7.5°	950.3	942.5	936.6	922.8	901.2	876.7	849.2	830.6	817.8	765.8	701.9
10°	1025.9	1019.1	1007.3	982.7	956.2	920.9	881.6	837.4	798.2	755.0	679.4
12.5°	1100.5	1090.7	1074.0	1042.6	1005.3	961.1	907.1	855.1	799.1	748.1	652.9
15°	1175.2	1164.4	1146.7	1108.4	1059.3	1001.4	935.6	869.8	804.1	739.3	625.4
17.5°	1256.6	1241.9	1215.4	1172.2	1110.4	1038.7	961.1	881.6	802.1	728.5	595.9
20°	1344.0	1323.4	1294.9	1237.0	1164.4	1079.9	986.7	893.4	801.1	715.7	562.5
22.5°	1416.7	1396.0	1364.6	1304.7	1217.4	1114.3	1008.3	901.2	797.2	701.0	531.1
25°	1479.5	1462.8	1428.4	1359.7	1267.4	1150.6	1028.9	907.1	791.3	685.3	497.7
27.5°	1528.6	1512.9	1474.6	1403.9	1309.7	1183.0	1044.6	910.1	783.4	669.6	463.4
30°	1571.8	1556.1	1509.9	1437.3	1338.1	1208.5	1060.3	911.1	773.6	646.0	426.1
32.5°	1605.2	1590.4	1543.3	1465.7	1357.8	1226.2	1069.1	910.1	760.9	629.3	385.8
35°	1638.5	1623.8	1568.8	1486.4	1372.5	1234.1	1076.0	905.2	745.1	601.8	347.5
37.5°	1664.1	1647.4	1591.4	1500.1	1379.4	1236.0	1075.0	898.3	728.5	579.2	309.3
40°	1681.7	1664.1	1604.2	1508.0	1381.3	1233.1	1067.2	886.5	708.8	550.8	269.0
42.5°	1693.5	1673.9	1610.1	1519.7	1377.4	1225.2	1055.4	871.8	687.2	526.2	230.7
45°	1699.4	1678.8	1611.0	1509.9	1370.5	1210.5	1037.7	853.1	663.7	492.8	192.4
47.5°	1696.5	1673.9	1606.1	1499.1	1357.8	1194.8	1018.1	830.6	635.2	463.4	156.1
50°	1691.6	1668.0	1595.3	1485.4	1340.1	1175.2	996.5	803.1	605.7	427.1	123.7
52.5°	1675.8	1652.3	1583.6	1465.7	1319.5	1152.6	967.0	774.6	574.3	391.7	94.2
55°	1656.2	1634.6	1562.9	1448.1	1293.0	1125.1	939.5	744.2	543.9	355.4	67.7
57.5°	1625.8	1606.1	1537.4	1419.6	1266.5	1094.6	909.1	710.8	505.6	319.1	47.1
60°	1588.5	1568.8	1502.1	1387.2	1236.0	1060.3	875.7	676.4	471.2	282.7	29.5
62.5°	1549.2	1530.5	1460.8	1347.0	1197.7	1024.0	839.4	642.1	434.9	249.4	17.7
65°	1497.2	1479.5	1416.7	1298.9	1155.5	984.7	799.1	600.8	397.6	212.1	9.8
67.5°	1442.2	1426.5	1362.7	1254.7	1106.4	941.5	757.9	560.6	358.3	179.7	4.9
70°	1383.3	1363.6	1304.7	1194.8	1056.4	892.4	712.7	519.3	321.0	148.2	0.0
72.5°	1314.6	1299.8	1242.9	1138.8	998.4	840.4	666.6	474.2	279.8	117.8	1.0
75°	1247.8	1229.1	1177.1	1078.9	941.5	785.4	615.6	432.0	239.5	90.3	1.0
77.5°	1161.4	1155.5	1106.4	1011.2	887.5	732.4	559.6	380.9	201.3	64.8	1.0
80°	1075.0	1069.1	1030.8	943.5	824.7	669.6	507.6	332.8	164.0	43.2	1.0
82.5°	989.6	981.7	945.4	872.8	760.9	616.5	453.6	284.7	129.6	26.5	1.0
85°	913.0	903.2	863.9	797.2	695.1	556.7	397.6	237.6	96.2	14.7	2.0
87.5°	847.2	840.4	797.2	728.5	628.3	500.7	348.5	192.4	67.7	6.9	2.9
90°	791.3	776.6	738.3	665.6	565.5	438.8	296.5	154.1	45.2	3.9	3.9
92.5°	736.3	723.5	681.3	606.7	509.5	385.8	246.4	117.8	28.5	2.0	4.9
95°	679.4	665.6	624.4	555.7	452.6	331.8	202.2	86.4	15.7	2.0	4.9
97.5°	623.4	610.6	567.4	498.7	401.5	284.7	160.0	60.9	7.9	2.0	3.9
100°	571.4	556.7	517.4	448.7	350.5	237.6	123.7	39.3	4.9	2.0	3.9
102.5°	516.4	504.6	464.4	397.6	297.5	193.4	92.3	24.5	2.0	2.0	2.9
105°	467.3	452.6	413.3	344.6	253.3	152.2	64.8	14.7	2.0	2.0	2.9



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CATALOG NUMBER: FCC-X-2-LD4-2HI-50-UNV-80-97-ED1D

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	304.3	292.6	258.2	200.3	128.6	59.9	17.7	2.9	2.9	2.9	2.9
115°	254.3	236.6	206.2	155.1	95.2	39.3	8.8	2.9	2.9	2.9	2.9
117.5°	203.2	188.5	166.9	117.8	62.8	25.5	4.9	2.9	2.9	2.9	2.9
120°	159.0	145.3	120.8	81.5	42.2	14.7	2.0	2.9	2.9	2.9	2.9
122.5°	113.9	103.1	81.5	53.0	25.5	6.9	2.9	2.9	3.9	3.9	2.9
125°	75.6	69.7	54.0	32.4	15.7	2.9	2.9	2.9	3.9	3.9	2.9
127.5°	49.1	44.2	31.4	18.7	6.9	2.9	2.9	3.9	3.9	3.9	2.9
130°	27.5	24.5	18.7	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°	770.7	770.7	770.7
2.5°	733.4	719.6	715.7
5°	694.1	671.5	658.8
7.5°	654.8	624.4	609.7
10°	618.5	575.3	559.6
12.5°	575.3	525.2	500.7
15°	534.1	469.3	445.7
17.5°	487.9	415.3	387.8
20°	444.7	361.3	332.8
22.5°	395.6	308.3	276.9
25°	351.5	255.3	219.9
27.5°	302.4	201.3	170.8
30°	256.2	154.1	123.7
32.5°	212.1	112.9	85.4
35°	170.8	76.6	54.0
37.5°	131.6	47.1	27.5
40°	95.2	24.5	12.8
42.5°	63.8	11.8	6.9
45°	39.3	5.9	0.0
47.5°	22.6	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	7.9	7.9
95°	6.9	7.9	8.8
97.5°	7.9	8.8	8.8
100°	6.9	8.8	9.8
102.5°	5.9	8.8	8.8
105°	4.9	6.9	7.9



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CATALOG NUMBER: FCC-X-2-LD4-2HI-50-UNV-80-97-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°	412.3	400.6	361.3	296.5	207.1	115.8	43.2	7.9	2.0	2.9	2.9
110°	359.3	349.5	309.3	246.4	166.9	86.4	28.5	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)