

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: P551270

Luminaire Tested: **FCC-X-2-LD4-2HI-35-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: P551270
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-80-97-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

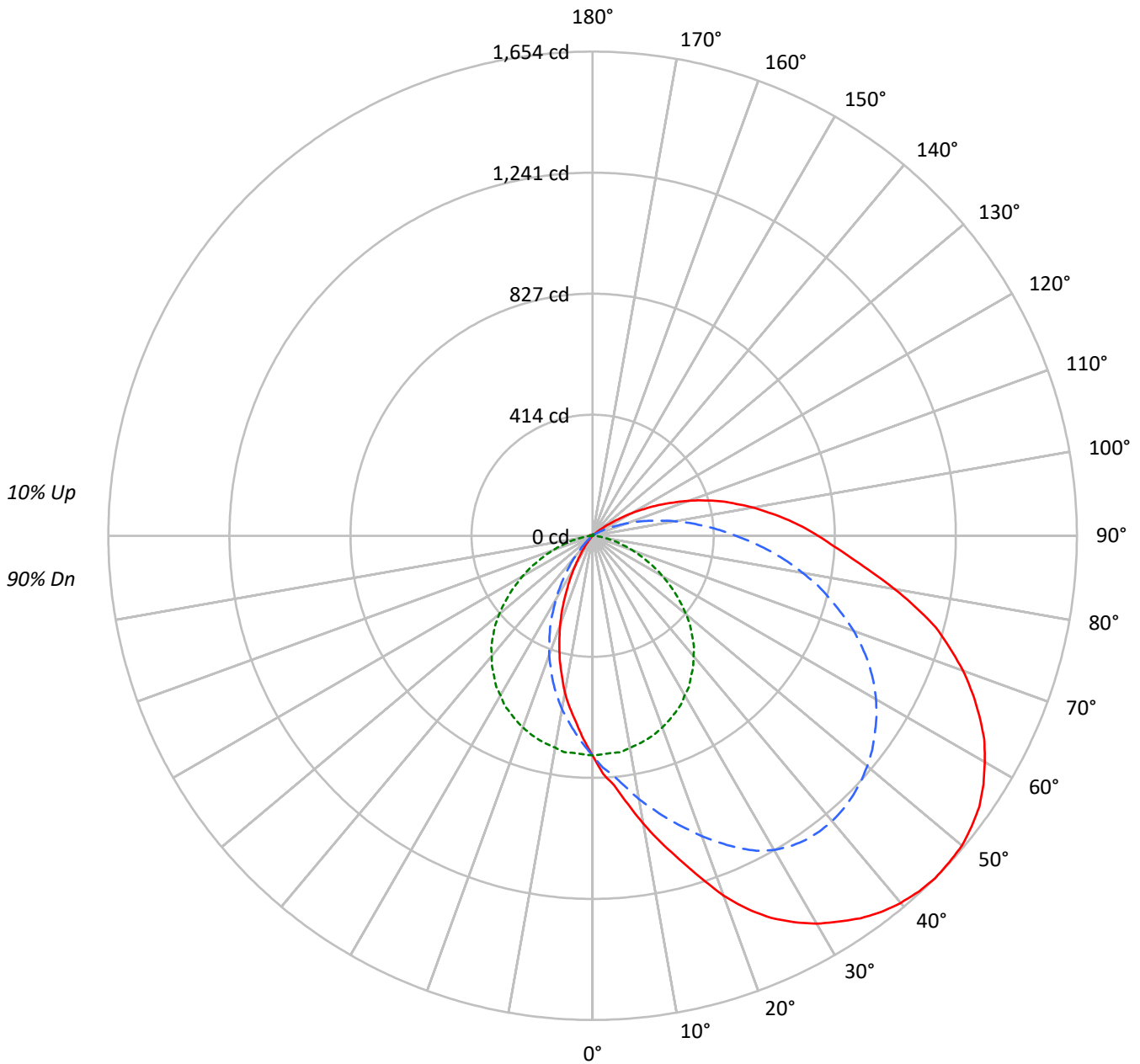
Lumens per Lamp: N/A
Luminaire Lumens: 3709.1 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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

TEST NUMBER: P551270

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-80-97-ED1D

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°	8075	8075	8075
5°	8865	7957	6639
10°	10031	7860	5472
15°	11242	7760	4264
20°	12680	7633	3140
25°	13872	7487	2062
30°	14758	7291	1161
35°	15525	7079	512
40°	16206	6819	123
45°	16789	6492	0
50°	17279	6059	0
55°	17652	5510	0
60°	17840	4870	0
65°	17914	4146	0
70°	17854	3380	0
75°	17626	2493	15
80°	16912	1527	78
85°	16347	727	105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	1.9
10°-20°	215.2	5.8
20°-30°	348.5	9.4
30°-40°	447.6	12.1
40°-50°	506.7	13.7
50°-60°	524.9	14.2
60°-70°	495.1	13.3
70°-80°	414.9	11.2
80°-90°	300.7	8.1
90°-100°	197.7	5.3
100°-110°	114.2	3.1
110°-120°	50.4	1.4
120°-130°	13.7	0.4
130°-140°	3.1	0.1
140°-150°	2.1	0.1
150°-160°	1.4	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	635.5	17.1
0°-40°	1083.1	29.2
0°-60°	2114.8	57.0
0°-90°	3325.5	89.7
90°-120°	362.2	9.8
90°-150°	381.0	10.3
90°-180°	384.0	10.4
0°-180°	3709.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	750	750	750	750	750	
5°	856	822	744	676	641	86
15°	1144	1003	720	520	434	330
25°	1440	1177	667	342	214	666
35°	1595	1269	586	166	53	1000
45°	1654	1256	480	38	0	1277
55°	1612	1177	346	0	0	1440
65°	1458	1042	206	0	0	1442
75°	1215	841	88	1	1	1274
85°	889	609	14	4	6	759
90°	770	489	4	6	7	422
95°	661	382	2	7	9	519
105°	455	197	2	5	8	480
115°	248	65	3	3	5	248
125°	74	9	4	3	4	74
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°	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2
2.5°	813.3	812.4	809.5	804.7	798.0	786.6	777.0	768.4	756.9	747.4	729.2
5°	856.3	851.5	847.7	842.9	827.7	817.1	799.9	780.8	762.7	744.5	708.2
7.5°	925.1	917.5	911.8	898.4	877.4	853.5	826.7	808.5	796.1	745.5	683.3
10°	998.7	992.0	980.6	956.7	930.9	896.5	858.2	815.2	777.0	735.0	661.4
12.5°	1071.4	1061.8	1045.6	1015.0	978.7	935.7	883.1	832.4	778.0	728.3	635.6
15°	1144.0	1133.5	1116.3	1079.0	1031.2	974.8	910.8	846.8	782.7	719.7	608.8
17.5°	1223.3	1209.0	1183.2	1141.1	1080.9	1011.2	935.7	858.2	780.8	709.1	580.1
20°	1308.4	1288.3	1260.6	1204.2	1133.5	1051.3	960.5	869.7	779.9	696.7	547.6
22.5°	1379.1	1359.0	1328.5	1270.2	1185.1	1084.7	981.5	877.4	776.0	682.4	517.0
25°	1440.3	1424.0	1390.6	1323.7	1233.8	1120.1	1001.6	883.1	770.3	667.1	484.6
27.5°	1488.1	1472.8	1435.5	1366.7	1274.9	1151.6	1016.9	886.0	762.7	651.8	451.1
30°	1530.1	1514.8	1469.9	1399.2	1302.6	1176.5	1032.2	886.9	753.1	628.9	414.8
32.5°	1562.6	1548.3	1502.4	1426.9	1321.8	1193.7	1040.8	886.0	740.7	612.6	375.6
35°	1595.1	1580.8	1527.2	1447.0	1336.1	1201.3	1047.5	881.2	725.4	585.9	338.3
37.5°	1619.9	1603.7	1549.2	1460.3	1342.8	1203.3	1046.5	874.5	709.1	563.9	301.1
40°	1637.2	1619.9	1561.6	1468.0	1344.7	1200.4	1038.9	863.0	690.0	536.2	261.9
42.5°	1648.6	1629.5	1567.4	1479.5	1340.9	1192.7	1027.4	848.7	669.0	512.3	224.6
45°	1654.4	1634.3	1568.3	1469.9	1334.2	1178.4	1010.2	830.5	646.1	479.8	187.3
47.5°	1651.5	1629.5	1563.6	1459.4	1321.8	1163.1	991.1	808.5	618.4	451.1	152.0
50°	1646.7	1623.8	1553.0	1446.0	1304.6	1144.0	970.1	781.8	589.7	415.7	120.4
52.5°	1631.4	1608.5	1541.6	1426.9	1284.5	1122.0	941.4	754.1	559.1	381.3	91.7
55°	1612.3	1591.3	1521.5	1409.7	1258.7	1095.3	914.6	724.4	529.5	346.0	65.9
57.5°	1582.7	1563.6	1496.7	1382.0	1232.9	1065.6	885.0	691.9	492.2	310.6	45.9
60°	1546.4	1527.2	1462.3	1350.4	1203.3	1032.2	852.5	658.5	458.7	275.2	28.7
62.5°	1508.1	1490.0	1422.1	1311.3	1166.0	996.8	817.1	625.0	423.4	242.8	17.2
65°	1457.5	1440.3	1379.1	1264.4	1124.9	958.6	778.0	584.9	387.1	206.4	9.6
67.5°	1404.0	1388.7	1326.5	1221.4	1077.1	916.5	737.8	545.7	348.8	174.9	4.8
70°	1346.6	1327.5	1270.2	1163.1	1028.4	868.8	693.9	505.6	312.5	144.3	0.0
72.5°	1279.7	1265.4	1209.9	1108.6	972.0	818.1	648.9	461.6	272.4	114.7	1.0
75°	1214.7	1196.6	1145.9	1050.3	916.5	764.6	599.2	420.5	233.2	87.9	1.0
77.5°	1130.6	1124.9	1077.1	984.4	864.0	713.0	544.8	370.8	195.9	63.1	1.0
80°	1046.5	1040.8	1003.5	918.4	802.8	651.8	494.1	324.0	159.6	42.1	1.0
82.5°	963.4	955.7	920.4	849.6	740.7	600.2	441.5	277.2	126.2	25.8	1.0
85°	888.8	879.3	841.0	776.0	676.7	541.9	387.1	231.3	93.7	14.3	1.9
87.5°	824.8	818.1	776.0	709.1	611.7	487.4	339.3	187.3	65.9	6.7	2.9
90°	770.3	756.0	718.7	648.0	550.5	427.2	288.6	150.0	44.0	3.8	3.8
92.5°	716.8	704.4	663.3	590.6	496.0	375.6	239.9	114.7	27.7	1.9	4.8
95°	661.4	648.0	607.8	540.9	440.6	323.0	196.9	84.1	15.3	1.9	4.8
97.5°	606.9	594.5	552.4	485.5	390.9	277.2	155.8	59.3	7.6	1.9	3.8
100°	556.2	541.9	503.7	436.8	341.2	231.3	120.4	38.2	4.8	1.9	3.8
102.5°	502.7	491.2	452.1	387.1	289.6	188.3	89.8	23.9	1.9	1.9	2.9
105°	454.9	440.6	402.4	335.5	246.6	148.1	63.1	14.3	1.9	1.9	2.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	296.3	284.8	251.4	195.0	125.2	58.3	17.2	2.9	2.9	2.9	2.9
115°	247.5	230.3	200.7	151.0	92.7	38.2	8.6	2.9	2.9	2.9	2.9
117.5°	197.8	183.5	162.5	114.7	61.2	24.8	4.8	2.9	2.9	2.9	2.9
120°	154.8	141.4	117.6	79.3	41.1	14.3	1.9	2.9	2.9	2.9	2.9
122.5°	110.9	100.4	79.3	51.6	24.8	6.7	2.9	2.9	3.8	3.8	2.9
125°	73.6	67.9	52.6	31.5	15.3	2.9	2.9	2.9	3.8	3.8	2.9
127.5°	47.8	43.0	30.6	18.2	6.7	2.9	2.9	3.8	3.8	3.8	2.9
130°	26.8	23.9	18.2	10.5	2.9	2.9	2.9	3.8	3.8	3.8	2.9
132.5°	15.3	14.3	9.6	1.9	2.9	2.9	2.9	3.8	3.8	3.8	3.8
135°	3.8	1.9	1.9	1.9	2.9	2.9	3.8	3.8	4.8	4.8	3.8
137.5°	1.0	1.0	1.9	1.9	2.9	2.9	3.8	4.8	4.8	4.8	3.8
140°	1.0	1.0	1.9	2.9	2.9	2.9	3.8	4.8	4.8	4.8	3.8
142.5°	1.0	1.9	1.9	2.9	2.9	3.8	3.8	4.8	4.8	3.8	3.8
145°	1.0	1.9	1.9	2.9	2.9	3.8	3.8	4.8	3.8	3.8	3.8
147.5°	1.9	1.9	1.9	2.9	2.9	3.8	3.8	4.8	4.8	3.8	3.8
150°	1.0	1.9	1.9	2.9	3.8	3.8	3.8	4.8	3.8	3.8	3.8
152.5°	1.0	1.9	1.9	2.9	3.8	3.8	3.8	4.8	3.8	3.8	3.8
155°	1.9	1.9	1.9	2.9	3.8	3.8	3.8	4.8	3.8	3.8	4.8
157.5°	1.9	1.9	1.9	2.9	3.8	3.8	3.8	4.8	3.8	3.8	4.8
160°	1.9	1.9	1.9	2.9	2.9	3.8	3.8	3.8	3.8	3.8	3.8
162.5°	1.9	1.9	1.9	2.9	2.9	3.8	3.8	3.8	3.8	3.8	3.8
165°	1.9	1.9	1.9	1.9	2.9	2.9	3.8	3.8	3.8	3.8	3.8
167.5°	1.9	1.9	1.9	2.9	2.9	2.9	3.8	3.8	3.8	3.8	3.8
170°	1.9	1.9	1.9	2.9	2.9	2.9	3.8	4.8	4.8	4.8	4.8
172.5°	1.9	1.9	1.9	2.9	2.9	3.8	3.8	4.8	4.8	4.8	4.8
175°	1.9	1.9	1.9	2.9	2.9	3.8	3.8	4.8	4.8	4.8	4.8
177.5°	1.0	1.9	1.9	2.9	2.9	3.8	3.8	4.8	4.8	4.8	3.8
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°	750.2	750.2	750.2
2.5°	713.9	700.5	696.7
5°	675.7	653.7	641.3
7.5°	637.5	607.8	593.5
10°	602.1	560.1	544.8
12.5°	560.1	511.3	487.4
15°	519.9	456.8	433.9
17.5°	475.0	404.3	377.5
20°	432.9	351.7	324.0
22.5°	385.2	300.1	269.5
25°	342.1	248.5	214.1
27.5°	294.4	195.9	166.3
30°	249.4	150.0	120.4
32.5°	206.4	109.9	83.1
35°	166.3	74.5	52.6
37.5°	128.1	45.9	26.8
40°	92.7	23.9	12.4
42.5°	62.1	11.5	6.7
45°	38.2	5.7	0.0
47.5°	22.0	0.0	0.0
50°	11.5	0.0	0.0
52.5°	4.8	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	1.9	2.9
80°	1.9	3.8	4.8
82.5°	3.8	4.8	4.8
85°	3.8	4.8	5.7
87.5°	4.8	5.7	6.7
90°	5.7	6.7	6.7
92.5°	5.7	7.6	7.6
95°	6.7	7.6	8.6
97.5°	7.6	8.6	8.6
100°	6.7	8.6	9.6
102.5°	5.7	8.6	8.6
105°	4.8	6.7	7.6



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	3.8	4.8	4.8
115°	2.9	3.8	4.8
117.5°	2.9	3.8	3.8
120°	2.9	2.9	3.8
122.5°	2.9	2.9	3.8
125°	2.9	2.9	3.8
127.5°	3.8	2.9	2.9
130°	2.9	2.9	2.9
132.5°	3.8	2.9	2.9
135°	3.8	2.9	2.9
137.5°	3.8	2.9	2.9
140°	3.8	2.9	2.9
142.5°	3.8	2.9	2.9
145°	2.9	2.9	2.9
147.5°	2.9	2.9	2.9
150°	2.9	2.9	1.9
152.5°	2.9	1.9	1.9
155°	2.9	1.9	1.0
157.5°	3.8	1.9	1.0
160°	2.9	1.9	1.0
162.5°	2.9	1.9	1.0
165°	2.9	1.9	0.0
167.5°	2.9	1.9	1.0
170°	2.9	1.9	1.0
172.5°	2.9	1.9	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°	401.4	389.9	351.7	288.6	201.7	112.8	42.1	7.6	1.9	2.9	2.9
110°	349.8	340.2	301.1	239.9	162.5	84.1	27.7	4.8	2.9	2.9	2.9





107.5°	3.8	5.7	6.7
110°	3.8	4.8	5.7



(END OF REPORT)