

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: P551265

Luminaire Tested: **FCC-X-2-LD4-2HI-35-UNV-80-94-ED1D-90**

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: P551265  
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-90  
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 3500K, AND 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

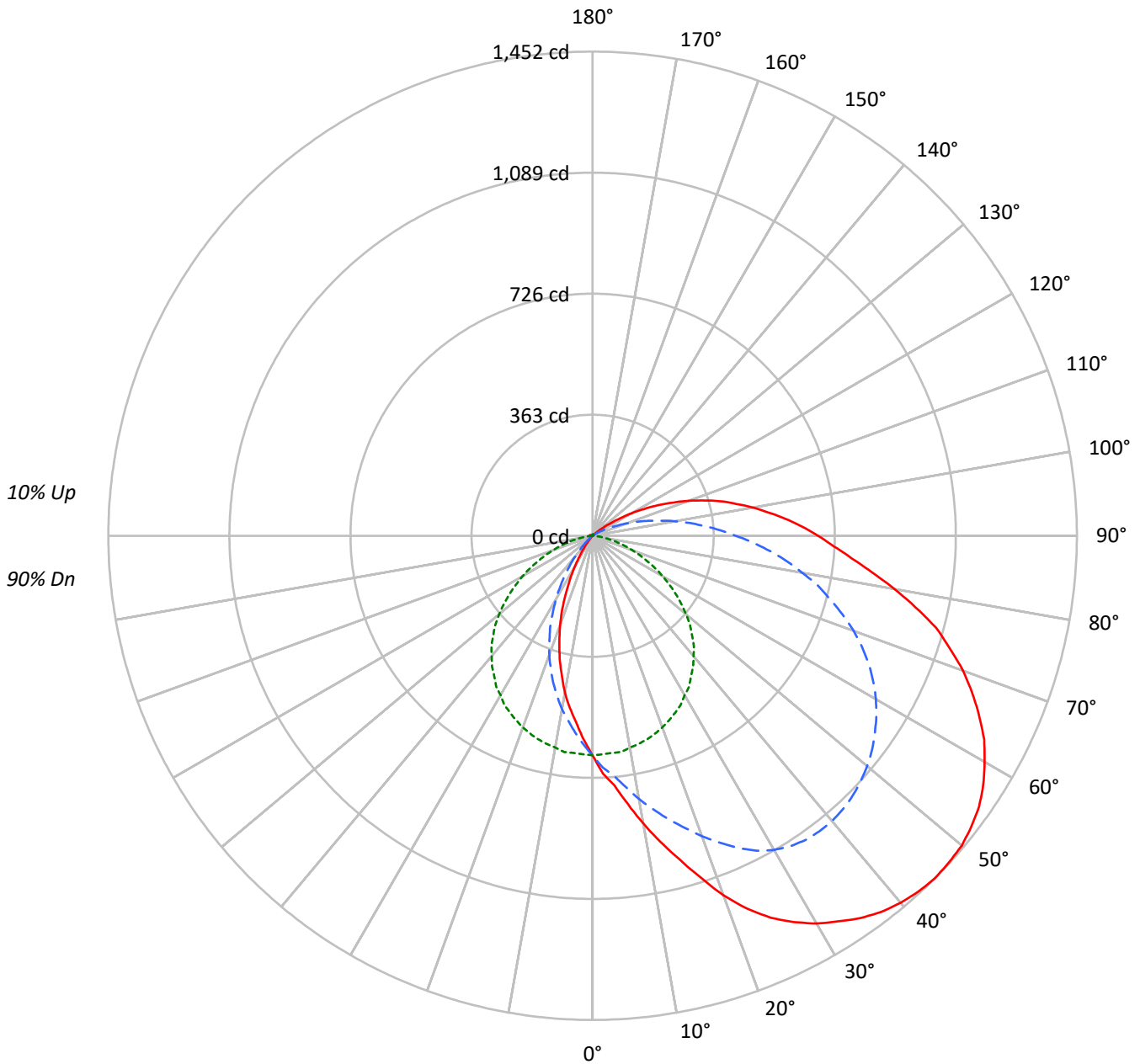
Lumens per Lamp: N/A  
Luminaire Lumens: 3255.0 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')  
CIE Type: Semi-Direct

Input Watts (W): 43.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P551265

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-80-94-ED1D-90

### 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°	7087	7087	7087
5°	7780	6984	5826
10°	8804	6898	4802
15°	9866	6810	3742
20°	11127	6699	2755
25°	12174	6570	1810
30°	12951	6398	1019
35°	13625	6212	449
40°	14222	5984	108
45°	14734	5697	0
50°	15164	5318	0
55°	15491	4834	0
60°	15656	4275	0
65°	15721	3639	0
70°	15669	2966	0
75°	15469	2189	12
80°	14842	1338	68
85°	14346	641	92



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.1	1.9
10°-20°	188.8	5.8
20°-30°	305.8	9.4
30°-40°	392.8	12.1
40°-50°	444.7	13.7
50°-60°	460.7	14.2
60°-70°	434.5	13.3
70°-80°	364.1	11.2
80°-90°	263.9	8.1
90°-100°	173.5	5.3
100°-110°	100.2	3.1
110°-120°	44.2	1.4
120°-130°	12.0	0.4
130°-140°	2.8	0.1
140°-150°	1.8	0.1
150°-160°	1.3	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	557.7	17.1
0°-40°	950.5	29.2
0°-60°	1855.9	57.0
0°-90°	2918.4	89.7
90°-120°	317.8	9.8
90°-150°	334.4	10.3
90°-180°	337.0	10.4
0°-180°	3255.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	658	658	658	658	658	
5°	752	722	653	593	563	76
15°	1004	880	632	456	381	289
25°	1264	1033	585	300	188	584
35°	1400	1113	514	146	46	878
45°	1452	1103	421	34	0	1121
55°	1415	1033	304	0	0	1263
65°	1279	914	181	0	0	1265
75°	1066	738	77	1	1	1118
85°	780	535	13	3	5	666
90°	676	429	3	5	6	371
95°	580	335	2	6	8	455
105°	399	173	2	4	7	421
115°	217	57	2	2	4	218
125°	65	8	3	2	3	65
135°	3	2	4	3	2	6
145°	1	3	3	2	2	1
155°	2	3	3	2	1	1
165°	2	2	3	2	0	0
175°	2	3	4	2	1	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
0°	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4
2.5°	713.8	712.9	710.4	706.2	700.3	690.3	681.9	674.3	664.3	655.9	640.0
5°	751.5	747.3	744.0	739.8	726.3	717.1	702.0	685.2	669.3	653.4	621.5
7.5°	811.9	805.2	800.2	788.4	770.0	749.0	725.5	709.6	698.7	654.2	599.7
10°	876.5	870.6	860.5	839.6	816.9	786.7	753.2	715.4	681.9	645.0	580.4
12.5°	940.2	931.8	917.6	890.7	858.9	821.1	775.0	730.5	682.7	639.1	557.8
15°	1004.0	994.7	979.6	946.9	905.0	855.5	799.3	743.1	686.9	631.6	534.3
17.5°	1073.6	1061.0	1038.4	1001.5	948.6	887.4	821.1	753.2	685.2	622.3	509.1
20°	1148.2	1130.6	1106.3	1056.8	994.7	922.6	842.9	763.3	684.4	611.4	480.6
22.5°	1210.3	1192.7	1165.8	1114.7	1040.0	952.0	861.4	770.0	681.1	598.9	453.8
25°	1264.0	1249.7	1220.4	1161.7	1082.8	983.0	879.0	775.0	676.0	585.4	425.2
27.5°	1305.9	1292.5	1259.8	1199.4	1118.9	1010.7	892.4	777.5	669.3	572.0	395.9
30°	1342.8	1329.4	1290.0	1227.9	1143.2	1032.5	905.8	778.3	660.9	551.9	364.0
32.5°	1371.3	1358.8	1318.5	1252.2	1160.0	1047.6	913.4	777.5	650.0	537.6	329.6
35°	1399.9	1387.3	1340.3	1269.8	1172.6	1054.3	919.3	773.3	636.6	514.1	296.9
37.5°	1421.7	1407.4	1359.6	1281.6	1178.4	1056.0	918.4	767.4	622.3	494.9	264.2
40°	1436.8	1421.7	1370.5	1288.3	1180.1	1053.5	911.7	757.4	605.6	470.5	229.8
42.5°	1446.8	1430.0	1375.5	1298.4	1176.7	1046.7	901.6	744.8	587.1	449.6	197.1
45°	1451.9	1434.2	1376.4	1290.0	1170.9	1034.2	886.5	728.9	567.0	421.0	164.4
47.5°	1449.3	1430.0	1372.2	1280.8	1160.0	1020.7	869.8	709.6	542.7	395.9	133.4
50°	1445.1	1425.0	1362.9	1269.0	1144.9	1004.0	851.3	686.1	517.5	364.9	105.7
52.5°	1431.7	1411.6	1352.9	1252.2	1127.3	984.7	826.2	661.8	490.7	334.7	80.5
55°	1414.9	1396.5	1335.3	1237.1	1104.6	961.2	802.7	635.8	464.7	303.6	57.9
57.5°	1388.9	1372.2	1313.5	1212.8	1082.0	935.2	776.7	607.2	431.9	272.6	40.3
60°	1357.1	1340.3	1283.3	1185.1	1056.0	905.8	748.2	577.9	402.6	241.6	25.2
62.5°	1323.5	1307.6	1248.0	1150.7	1023.3	874.8	717.1	548.5	371.6	213.0	15.1
65°	1279.1	1264.0	1210.3	1109.6	987.2	841.3	682.7	513.3	339.7	181.2	8.4
67.5°	1232.1	1218.7	1164.2	1071.9	945.3	804.3	647.5	478.9	306.1	153.5	4.2
70°	1181.8	1165.0	1114.7	1020.7	902.5	762.4	608.9	443.7	274.3	126.6	0.0
72.5°	1123.1	1110.5	1061.8	972.9	853.0	718.0	569.5	405.1	239.0	100.6	0.8
75°	1066.0	1050.1	1005.6	921.8	804.3	671.0	525.9	369.0	204.7	77.2	0.8
77.5°	992.2	987.2	945.3	863.9	758.2	625.7	478.1	325.4	171.9	55.4	0.8
80°	918.4	913.4	880.7	806.0	704.5	572.0	433.6	284.3	140.1	36.9	0.8
82.5°	845.4	838.7	807.7	745.6	650.0	526.7	387.5	243.2	110.7	22.6	0.8
85°	780.0	771.6	738.1	681.1	593.8	475.6	339.7	203.0	82.2	12.6	1.7
87.5°	723.8	718.0	681.1	622.3	536.8	427.8	297.8	164.4	57.9	5.9	2.5
90°	676.0	663.4	630.7	568.7	483.1	374.9	253.3	131.7	38.6	3.4	3.4
92.5°	629.1	618.1	582.1	518.3	435.3	329.6	210.5	100.6	24.3	1.7	4.2
95°	580.4	568.7	533.4	474.7	386.7	283.5	172.8	73.8	13.4	1.7	4.2
97.5°	532.6	521.7	484.8	426.1	343.0	243.2	136.7	52.0	6.7	1.7	3.4
100°	488.1	475.6	442.0	383.3	299.4	203.0	105.7	33.5	4.2	1.7	3.4
102.5°	441.2	431.1	396.7	339.7	254.1	165.2	78.8	21.0	1.7	1.7	2.5
105°	399.2	386.7	353.1	294.4	216.4	130.0	55.4	12.6	1.7	1.7	2.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	260.0	249.9	220.6	171.1	109.9	51.2	15.1	2.5	2.5	2.5	2.5
115°	217.2	202.1	176.1	132.5	81.4	33.5	7.5	2.5	2.5	2.5	2.5
117.5°	173.6	161.0	142.6	100.6	53.7	21.8	4.2	2.5	2.5	2.5	2.5
120°	135.9	124.1	103.2	69.6	36.1	12.6	1.7	2.5	2.5	2.5	2.5
122.5°	97.3	88.1	69.6	45.3	21.8	5.9	2.5	2.5	3.4	3.4	2.5
125°	64.6	59.6	46.1	27.7	13.4	2.5	2.5	2.5	3.4	3.4	2.5
127.5°	41.9	37.7	26.8	15.9	5.9	2.5	2.5	3.4	3.4	3.4	2.5
130°	23.5	21.0	15.9	9.2	2.5	2.5	2.5	3.4	3.4	3.4	2.5
132.5°	13.4	12.6	8.4	1.7	2.5	2.5	2.5	3.4	3.4	3.4	3.4
135°	3.4	1.7	1.7	1.7	2.5	2.5	3.4	3.4	4.2	4.2	3.4
137.5°	0.8	0.8	1.7	1.7	2.5	2.5	3.4	4.2	4.2	4.2	3.4
140°	0.8	0.8	1.7	2.5	2.5	2.5	3.4	4.2	4.2	4.2	3.4
142.5°	0.8	1.7	1.7	2.5	2.5	3.4	3.4	4.2	4.2	3.4	3.4
145°	0.8	1.7	1.7	2.5	2.5	3.4	3.4	4.2	3.4	3.4	3.4
147.5°	1.7	1.7	1.7	2.5	2.5	3.4	3.4	4.2	4.2	3.4	3.4
150°	0.8	1.7	1.7	2.5	3.4	3.4	3.4	4.2	3.4	3.4	3.4
152.5°	0.8	1.7	1.7	2.5	3.4	3.4	3.4	4.2	3.4	3.4	3.4
155°	1.7	1.7	1.7	2.5	3.4	3.4	3.4	4.2	3.4	3.4	4.2
157.5°	1.7	1.7	1.7	2.5	3.4	3.4	3.4	4.2	3.4	3.4	4.2
160°	1.7	1.7	1.7	2.5	2.5	3.4	3.4	3.4	3.4	3.4	3.4
162.5°	1.7	1.7	1.7	2.5	2.5	3.4	3.4	3.4	3.4	3.4	3.4
165°	1.7	1.7	1.7	1.7	2.5	2.5	3.4	3.4	3.4	3.4	3.4
167.5°	1.7	1.7	1.7	2.5	2.5	2.5	3.4	3.4	3.4	3.4	3.4
170°	1.7	1.7	1.7	2.5	2.5	2.5	3.4	4.2	4.2	4.2	4.2
172.5°	1.7	1.7	1.7	2.5	2.5	3.4	3.4	4.2	4.2	4.2	4.2
175°	1.7	1.7	1.7	2.5	2.5	3.4	3.4	4.2	4.2	4.2	4.2
177.5°	0.8	1.7	1.7	2.5	2.5	3.4	3.4	4.2	4.2	4.2	3.4
180°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5



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**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
0°	658.4	658.4	658.4
2.5°	626.5	614.8	611.4
5°	593.0	573.7	562.8
7.5°	559.4	533.4	520.9
10°	528.4	491.5	478.1
12.5°	491.5	448.7	427.8
15°	456.3	400.9	380.8
17.5°	416.9	354.8	331.3
20°	379.9	308.7	284.3
22.5°	338.0	263.4	236.5
25°	300.3	218.1	187.9
27.5°	258.3	171.9	145.9
30°	218.9	131.7	105.7
32.5°	181.2	96.5	73.0
35°	145.9	65.4	46.1
37.5°	112.4	40.3	23.5
40°	81.4	21.0	10.9
42.5°	54.5	10.1	5.9
45°	33.5	5.0	0.0
47.5°	19.3	0.0	0.0
50°	10.1	0.0	0.0
52.5°	4.2	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°	0.8	0.8	0.8
77.5°	0.8	1.7	2.5
80°	1.7	3.4	4.2
82.5°	3.4	4.2	4.2
85°	3.4	4.2	5.0
87.5°	4.2	5.0	5.9
90°	5.0	5.9	5.9
92.5°	5.0	6.7	6.7
95°	5.9	6.7	7.5
97.5°	6.7	7.5	7.5
100°	5.9	7.5	8.4
102.5°	5.0	7.5	7.5
105°	4.2	5.9	6.7





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**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
112.5°	3.4	4.2	4.2
115°	2.5	3.4	4.2
117.5°	2.5	3.4	3.4
120°	2.5	2.5	3.4
122.5°	2.5	2.5	3.4
125°	2.5	2.5	3.4
127.5°	3.4	2.5	2.5
130°	2.5	2.5	2.5
132.5°	3.4	2.5	2.5
135°	3.4	2.5	2.5
137.5°	3.4	2.5	2.5
140°	3.4	2.5	2.5
142.5°	3.4	2.5	2.5
145°	2.5	2.5	2.5
147.5°	2.5	2.5	2.5
150°	2.5	2.5	1.7
152.5°	2.5	1.7	1.7
155°	2.5	1.7	0.8
157.5°	3.4	1.7	0.8
160°	2.5	1.7	0.8
162.5°	2.5	1.7	0.8
165°	2.5	1.7	0.0
167.5°	2.5	1.7	0.8
170°	2.5	1.7	0.8
172.5°	2.5	1.7	0.8
175°	2.5	0.8	0.8
177.5°	2.5	0.8	0.8
180°	2.5	2.5	2.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	352.3	342.2	308.7	253.3	177.0	99.0	36.9	6.7	1.7	2.5	2.5
110°	307.0	298.6	264.2	210.5	142.6	73.8	24.3	4.2	2.5	2.5	2.5







107.5°	3.4	5.0	5.9
110°	3.4	4.2	5.0



(END OF REPORT)