

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: P551128

Luminaire Tested: **FCC-X-2-LD4-1STD-50-UNV-80-84-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: P551128
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-LD4-1STD-50-UNV-80-84-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 5000K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

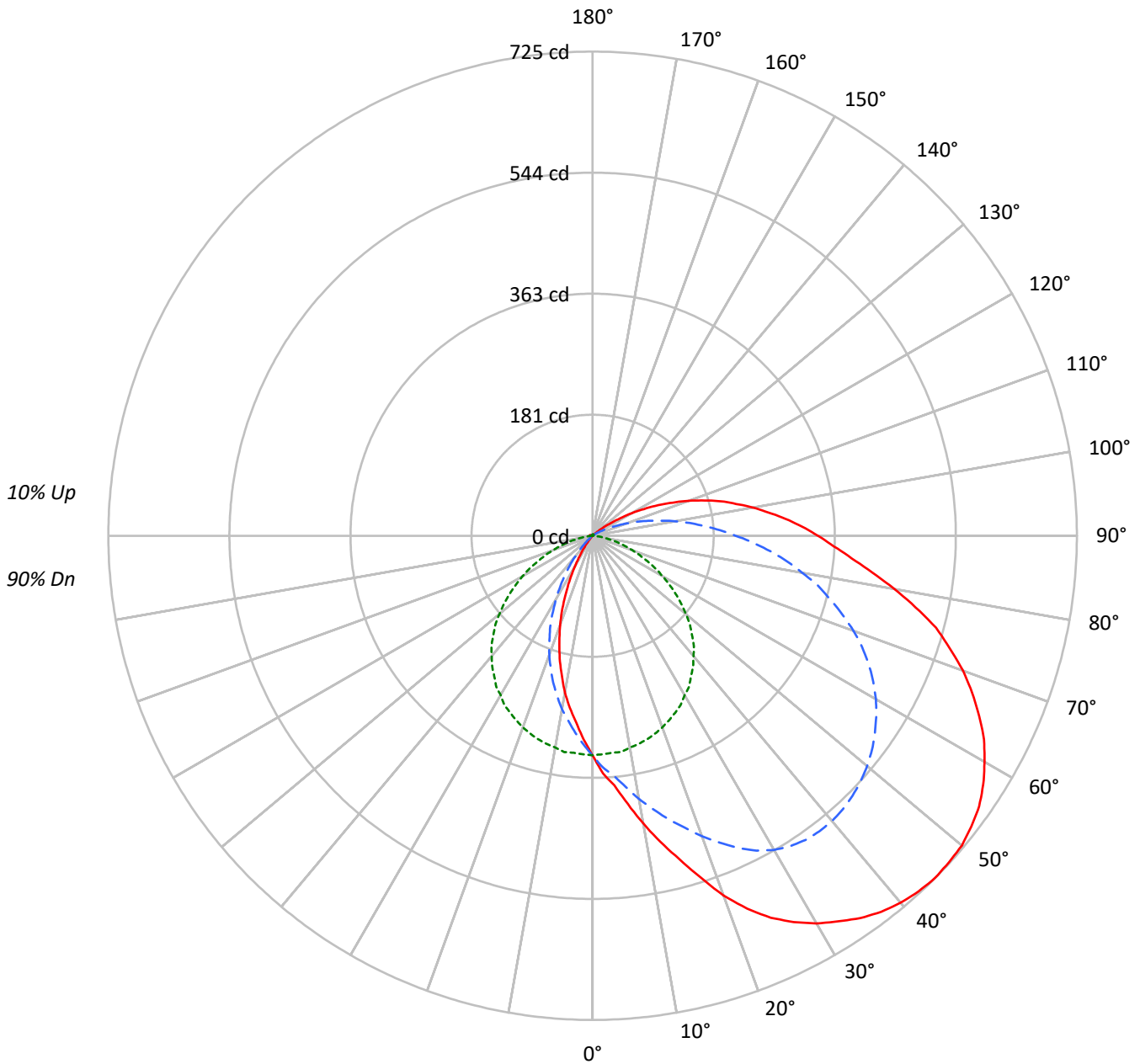
Lumens per Lamp: N/A
Luminaire Lumens: 1625.1 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 16.7
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-LD4-1STD-50-UNV-80-84-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°	3538	3538	3538
5°	3884	3486	2909
10°	4395	3444	2398
15°	4925	3400	1868
20°	5555	3344	1375
25°	6077	3280	903
30°	6466	3194	509
35°	6802	3102	224
40°	7100	2987	53
45°	7355	2844	0
50°	7571	2654	0
55°	7734	2414	0
60°	7816	2134	0
65°	7849	1816	0
70°	7822	1481	0
75°	7723	1092	6
80°	7410	667	34
85°	7162	320	46



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.5	1.9
10°-20°	94.3	5.8
20°-30°	152.7	9.4
30°-40°	196.1	12.1
40°-50°	222.0	13.7
50°-60°	230.0	14.2
60°-70°	216.9	13.3
70°-80°	181.8	11.2
80°-90°	131.8	8.1
90°-100°	86.6	5.3
100°-110°	50.0	3.1
110°-120°	22.1	1.4
120°-130°	6.0	0.4
130°-140°	1.4	0.1
140°-150°	0.9	0.1
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	278.4	17.1
0°-40°	474.5	29.2
0°-60°	926.5	57.0
0°-90°	1456.9	89.7
90°-120°	158.7	9.8
90°-150°	167.0	10.3
90°-180°	168.0	10.3
0°-180°	1625.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	329	329	329	329	329	
5°	375	360	326	296	281	38
15°	501	439	315	228	190	145
25°	631	516	292	150	94	292
35°	699	556	257	73	23	438
45°	725	550	210	17	0	560
55°	706	516	152	0	0	631
65°	639	456	90	0	0	632
75°	532	368	38	0	0	558
85°	389	267	6	2	2	333
90°	338	214	2	2	3	185
95°	290	167	1	3	4	227
105°	199	86	1	2	3	210
115°	108	29	1	1	2	109
125°	32	4	2	1	2	32
135°	2	1	2	2	1	3
145°	0	2	2	1	1	0
155°	1	2	2	1	0	0
165°	1	1	2	1	0	0
175°	1	2	2	1	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
0°	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7
2.5°	356.3	355.9	354.7	352.6	349.6	344.6	340.4	336.7	331.6	327.4	319.5
5°	375.2	373.1	371.4	369.3	362.6	358.0	350.5	342.1	334.1	326.2	310.3
7.5°	405.3	402.0	399.5	393.6	384.4	373.9	362.2	354.2	348.8	326.6	299.4
10°	437.6	434.6	429.6	419.1	407.8	392.8	376.0	357.2	340.4	322.0	289.8
12.5°	469.4	465.2	458.1	444.7	428.8	409.9	386.9	364.7	340.8	319.1	278.5
15°	501.2	496.6	489.1	472.7	451.8	427.1	399.0	371.0	342.9	315.3	266.7
17.5°	536.0	529.7	518.4	500.0	473.6	443.0	409.9	376.0	342.1	310.7	254.2
20°	573.2	564.4	552.3	527.6	496.6	460.6	420.8	381.0	341.7	305.2	239.9
22.5°	604.2	595.4	582.0	556.5	519.2	475.3	430.0	384.4	340.0	299.0	226.5
25°	631.0	623.9	609.2	579.9	540.6	490.7	438.8	386.9	337.5	292.3	212.3
27.5°	652.0	645.3	628.9	598.8	558.6	504.6	445.5	388.2	334.1	285.6	197.6
30°	670.4	663.7	644.0	613.0	570.7	515.4	452.2	388.6	330.0	275.5	181.7
32.5°	684.6	678.3	658.2	625.2	579.1	523.0	456.0	388.2	324.5	268.4	164.6
35°	698.9	692.6	669.1	633.9	585.4	526.3	458.9	386.1	317.8	256.7	148.2
37.5°	709.7	702.6	678.8	639.8	588.3	527.2	458.5	383.1	310.7	247.0	131.9
40°	717.3	709.7	684.2	643.2	589.1	525.9	455.2	378.1	302.3	234.9	114.7
42.5°	722.3	713.9	686.7	648.2	587.5	522.6	450.1	371.8	293.1	224.4	98.4
45°	724.8	716.0	687.1	644.0	584.5	516.3	442.6	363.9	283.1	210.2	82.1
47.5°	723.6	713.9	685.0	639.4	579.1	509.6	434.2	354.2	270.9	197.6	66.6
50°	721.5	711.4	680.4	633.5	571.6	501.2	425.0	342.5	258.4	182.1	52.8
52.5°	714.8	704.7	675.4	625.2	562.8	491.6	412.4	330.4	245.0	167.1	40.2
55°	706.4	697.2	666.6	617.6	551.5	479.9	400.7	317.4	232.0	151.6	28.9
57.5°	693.4	685.0	655.7	605.5	540.2	466.9	387.7	303.2	215.6	136.1	20.1
60°	677.5	669.1	640.6	591.7	527.2	452.2	373.5	288.5	201.0	120.6	12.6
62.5°	660.7	652.8	623.1	574.5	510.8	436.7	358.0	273.8	185.5	106.4	7.5
65°	638.6	631.0	604.2	554.0	492.8	420.0	340.8	256.3	169.6	90.4	4.2
67.5°	615.1	608.4	581.2	535.1	471.9	401.6	323.3	239.1	152.8	76.6	2.1
70°	590.0	581.6	556.5	509.6	450.5	380.6	304.0	221.5	136.9	63.2	0.0
72.5°	560.7	554.4	530.1	485.7	425.8	358.4	284.3	202.2	119.3	50.2	0.4
75°	532.2	524.2	502.1	460.2	401.6	335.0	262.5	184.2	102.2	38.5	0.4
77.5°	495.4	492.8	471.9	431.3	378.5	312.4	238.7	162.5	85.8	27.6	0.4
80°	458.5	456.0	439.7	402.4	351.7	285.6	216.5	141.9	69.9	18.4	0.4
82.5°	422.1	418.7	403.2	372.2	324.5	263.0	193.5	121.4	55.3	11.3	0.4
85°	389.4	385.2	368.5	340.0	296.5	237.4	169.6	101.3	41.0	6.3	0.8
87.5°	361.4	358.4	340.0	310.7	268.0	213.5	148.6	82.1	28.9	2.9	1.3
90°	337.5	331.2	314.9	283.9	241.2	187.2	126.5	65.7	19.3	1.7	1.7
92.5°	314.0	308.6	290.6	258.8	217.3	164.6	105.1	50.2	12.1	0.8	2.1
95°	289.8	283.9	266.3	237.0	193.0	141.5	86.3	36.8	6.7	0.8	2.1
97.5°	265.9	260.4	242.0	212.7	171.3	121.4	68.3	26.0	3.3	0.8	1.7
100°	243.7	237.4	220.7	191.4	149.5	101.3	52.8	16.7	2.1	0.8	1.7
102.5°	220.2	215.2	198.1	169.6	126.9	82.5	39.4	10.5	0.8	0.8	1.3
105°	199.3	193.0	176.3	147.0	108.0	64.9	27.6	6.3	0.8	0.8	1.3



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CATALOG NUMBER: FCC-X-2-LD4-1STD-50-UNV-80-84-ED1D

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	129.8	124.8	110.1	85.4	54.9	25.5	7.5	1.3	1.3	1.3	1.3
115°	108.4	100.9	87.9	66.2	40.6	16.7	3.8	1.3	1.3	1.3	1.3
117.5°	86.7	80.4	71.2	50.2	26.8	10.9	2.1	1.3	1.3	1.3	1.3
120°	67.8	62.0	51.5	34.8	18.0	6.3	0.8	1.3	1.3	1.3	1.3
122.5°	48.6	44.0	34.8	22.6	10.9	2.9	1.3	1.3	1.7	1.7	1.3
125°	32.2	29.7	23.0	13.8	6.7	1.3	1.3	1.3	1.7	1.7	1.3
127.5°	20.9	18.8	13.4	8.0	2.9	1.3	1.3	1.7	1.7	1.7	1.3
130°	11.7	10.5	8.0	4.6	1.3	1.3	1.3	1.7	1.7	1.7	1.3
132.5°	6.7	6.3	4.2	0.8	1.3	1.3	1.3	1.7	1.7	1.7	1.7
135°	1.7	0.8	0.8	0.8	1.3	1.3	1.7	1.7	2.1	2.1	1.7
137.5°	0.4	0.4	0.8	0.8	1.3	1.3	1.7	2.1	2.1	2.1	1.7
140°	0.4	0.4	0.8	1.3	1.3	1.3	1.7	2.1	2.1	2.1	1.7
142.5°	0.4	0.8	0.8	1.3	1.3	1.7	1.7	2.1	2.1	1.7	1.7
145°	0.4	0.8	0.8	1.3	1.3	1.7	1.7	2.1	1.7	1.7	1.7
147.5°	0.8	0.8	0.8	1.3	1.3	1.7	1.7	2.1	2.1	1.7	1.7
150°	0.4	0.8	0.8	1.3	1.7	1.7	1.7	2.1	1.7	1.7	1.7
152.5°	0.4	0.8	0.8	1.3	1.7	1.7	1.7	2.1	1.7	1.7	1.7
155°	0.8	0.8	0.8	1.3	1.7	1.7	1.7	2.1	1.7	1.7	2.1
157.5°	0.8	0.8	0.8	1.3	1.7	1.7	1.7	2.1	1.7	1.7	2.1
160°	0.8	0.8	0.8	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.7
162.5°	0.8	0.8	0.8	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.7
165°	0.8	0.8	0.8	0.8	1.3	1.3	1.7	1.7	1.7	1.7	1.7
167.5°	0.8	0.8	0.8	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7
170°	0.8	0.8	0.8	1.3	1.3	1.3	1.7	2.1	2.1	2.1	2.1
172.5°	0.8	0.8	0.8	1.3	1.3	1.7	1.7	2.1	2.1	2.1	2.1
175°	0.8	0.8	0.8	1.3	1.3	1.7	1.7	2.1	2.1	2.1	2.1
177.5°	0.4	0.8	0.8	1.3	1.3	1.7	1.7	2.1	2.1	2.1	1.7
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	328.7	328.7	328.7
2.5°	312.8	306.9	305.2
5°	296.0	286.4	281.0
7.5°	279.3	266.3	260.0
10°	263.8	245.4	238.7
12.5°	245.4	224.0	213.5
15°	227.8	200.2	190.1
17.5°	208.1	177.1	165.4
20°	189.7	154.1	141.9
22.5°	168.7	131.5	118.1
25°	149.9	108.9	93.8
27.5°	129.0	85.8	72.9
30°	109.3	65.7	52.8
32.5°	90.4	48.2	36.4
35°	72.9	32.7	23.0
37.5°	56.1	20.1	11.7
40°	40.6	10.5	5.4
42.5°	27.2	5.0	2.9
45°	16.7	2.5	0.0
47.5°	9.6	0.0	0.0
50°	5.0	0.0	0.0
52.5°	2.1	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°	0.4	0.4	0.4
77.5°	0.4	0.8	1.3
80°	0.8	1.7	2.1
82.5°	1.7	2.1	2.1
85°	1.7	2.1	2.5
87.5°	2.1	2.5	2.9
90°	2.5	2.9	2.9
92.5°	2.5	3.3	3.3
95°	2.9	3.3	3.8
97.5°	3.3	3.8	3.8
100°	2.9	3.8	4.2
102.5°	2.5	3.8	3.8
105°	2.1	2.9	3.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.7	2.1	2.1
115°	1.3	1.7	2.1
117.5°	1.3	1.7	1.7
120°	1.3	1.3	1.7
122.5°	1.3	1.3	1.7
125°	1.3	1.3	1.7
127.5°	1.7	1.3	1.3
130°	1.3	1.3	1.3
132.5°	1.7	1.3	1.3
135°	1.7	1.3	1.3
137.5°	1.7	1.3	1.3
140°	1.7	1.3	1.3
142.5°	1.7	1.3	1.3
145°	1.3	1.3	1.3
147.5°	1.3	1.3	1.3
150°	1.3	1.3	0.8
152.5°	1.3	0.8	0.8
155°	1.3	0.8	0.4
157.5°	1.7	0.8	0.4
160°	1.3	0.8	0.4
162.5°	1.3	0.8	0.4
165°	1.3	0.8	0.0
167.5°	1.3	0.8	0.4
170°	1.3	0.8	0.4
172.5°	1.3	0.8	0.4
175°	1.3	0.4	0.4
177.5°	1.3	0.4	0.4
180°	1.3	1.3	1.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	175.9	170.8	154.1	126.5	88.4	49.4	18.4	3.3	0.8	1.3	1.3
110°	153.3	149.1	131.9	105.1	71.2	36.8	12.1	2.1	1.3	1.3	1.3





107.5°	1.7	2.5	2.9
110°	1.7	2.1	2.5



(END OF REPORT)