

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: P550944

Luminaire Tested: **FCC-X-2-LD4-1STD-30-UNV-80-88-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: P550944
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-30-UNV-80-88-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3000K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

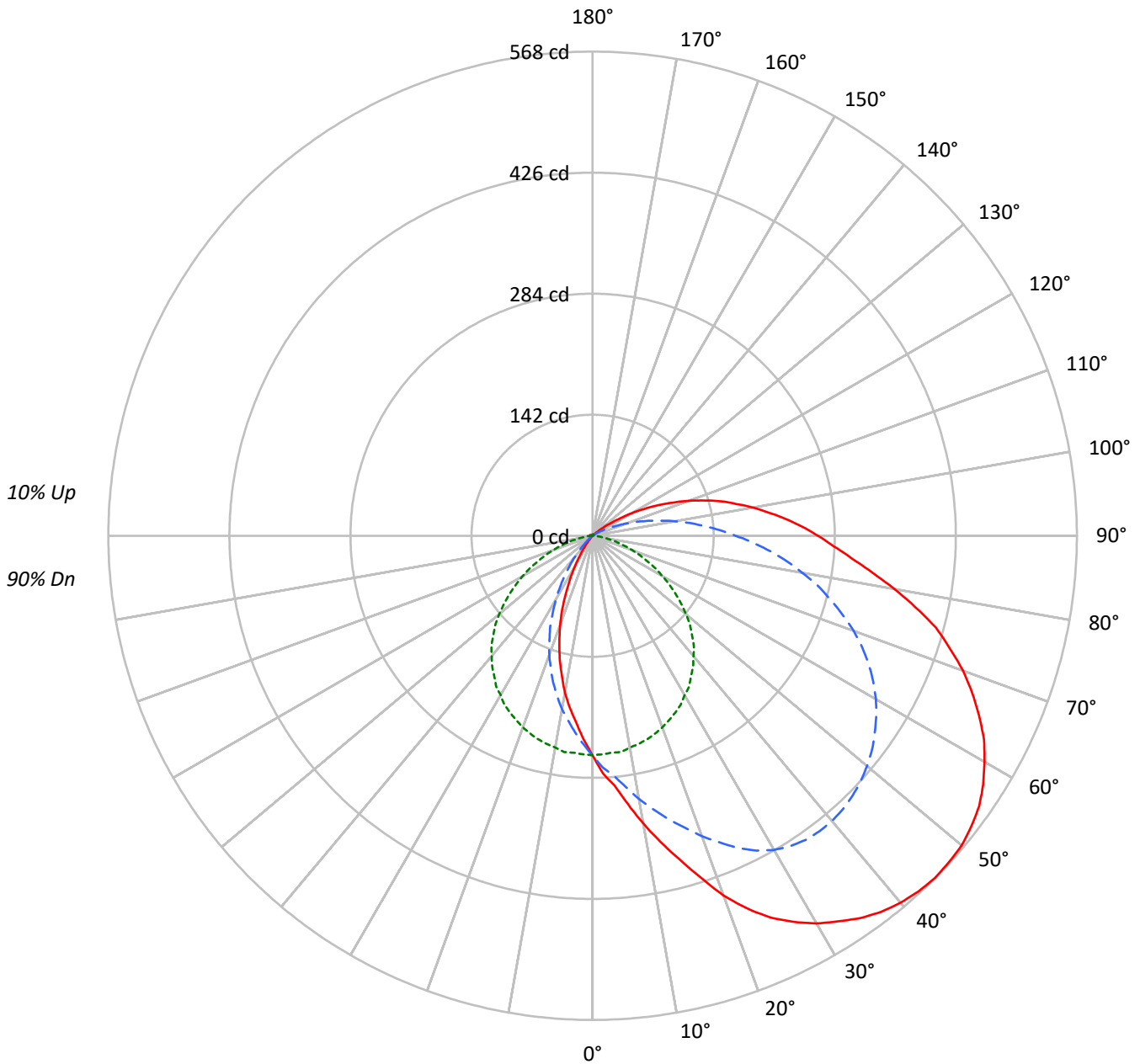
Lumens per Lamp: N/A
Luminaire Lumens: 1273.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 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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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°	2772	2772	2772
5°	3043	2731	2279
10°	3443	2697	1878
15°	3858	2663	1463
20°	4352	2620	1078
25°	4761	2570	708
30°	5065	2502	398
35°	5329	2430	175
40°	5562	2340	43
45°	5762	2229	0
50°	5931	2080	0
55°	6059	1890	0
60°	6123	1672	0
65°	6148	1424	0
70°	6128	1160	0
75°	6050	856	4
80°	5805	522	26
85°	5611	249	37



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	1.9
10°-20°	73.9	5.8
20°-30°	119.6	9.4
30°-40°	153.6	12.1
40°-50°	173.9	13.7
50°-60°	180.2	14.2
60°-70°	169.9	13.3
70°-80°	142.4	11.2
80°-90°	103.2	8.1
90°-100°	67.8	5.3
100°-110°	39.2	3.1
110°-120°	17.3	1.4
120°-130°	4.7	0.4
130°-140°	1.1	0.1
140°-150°	0.7	0.1
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	218.1	17.1
0°-40°	371.7	29.2
0°-60°	725.8	57.0
0°-90°	1141.3	89.7
90°-120°	124.3	9.8
90°-150°	130.8	10.3
90°-180°	132.0	10.4
0°-180°	1273.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	258	258	258	258	258	
5°	294	282	256	232	220	30
15°	393	344	247	178	149	113
25°	494	404	229	117	74	228
35°	548	435	201	57	18	343
45°	568	431	165	13	0	438
55°	553	404	119	0	0	494
65°	500	358	71	0	0	495
75°	417	288	30	0	0	437
85°	305	209	5	1	2	261
90°	264	168	1	2	2	145
95°	227	131	1	2	3	178
105°	156	68	1	2	3	165
115°	85	22	1	1	2	85
125°	25	3	1	1	1	25
135°	1	1	2	1	1	2
145°	0	1	1	1	1	0
155°	1	1	1	1	0	0
165°	1	1	1	1	0	0
175°	1	1	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°	257.5	257.5	257.5	257.5	257.5	257.5	257.5	257.5	257.5	257.5	257.5
2.5°	279.1	278.8	277.8	276.2	273.9	270.0	266.7	263.7	259.8	256.5	250.3
5°	293.9	292.3	291.0	289.3	284.1	280.5	274.6	268.0	261.8	255.5	243.1
7.5°	317.5	314.9	312.9	308.3	301.1	292.9	283.7	277.5	273.2	255.9	234.5
10°	342.8	340.5	336.6	328.4	319.5	307.7	294.6	279.8	266.7	252.2	227.0
12.5°	367.7	364.4	358.9	348.4	335.9	321.1	303.1	285.7	267.0	250.0	218.1
15°	392.6	389.0	383.1	370.3	353.9	334.6	312.6	290.6	268.7	247.0	209.0
17.5°	419.9	414.9	406.1	391.7	371.0	347.0	321.1	294.6	268.0	243.4	199.1
20°	449.1	442.2	432.7	413.3	389.0	360.8	329.7	298.5	267.7	239.1	188.0
22.5°	473.3	466.4	456.0	435.9	406.7	372.3	336.9	301.1	266.4	234.2	177.5
25°	494.3	488.8	477.3	454.3	423.5	384.4	343.8	303.1	264.4	229.0	166.3
27.5°	510.7	505.5	492.7	469.1	437.6	395.3	349.0	304.1	261.8	223.7	154.8
30°	525.2	519.9	504.5	480.2	447.1	403.8	354.3	304.4	258.5	215.8	142.4
32.5°	536.3	531.4	515.7	489.7	453.7	409.7	357.2	304.1	254.2	210.3	128.9
35°	547.5	542.5	524.2	496.6	458.6	412.3	359.5	302.4	249.0	201.1	116.1
37.5°	556.0	550.4	531.7	501.2	460.9	413.0	359.2	300.1	243.4	193.5	103.3
40°	561.9	556.0	536.0	503.8	461.5	412.0	356.6	296.2	236.8	184.0	89.9
42.5°	565.8	559.3	538.0	507.8	460.2	409.4	352.6	291.3	229.6	175.8	77.1
45°	567.8	560.9	538.3	504.5	457.9	404.5	346.7	285.1	221.7	164.7	64.3
47.5°	566.8	559.3	536.6	500.9	453.7	399.2	340.2	277.5	212.2	154.8	52.2
50°	565.2	557.3	533.0	496.3	447.8	392.6	332.9	268.3	202.4	142.7	41.3
52.5°	559.9	552.1	529.1	489.7	440.9	385.1	323.1	258.8	191.9	130.9	31.5
55°	553.4	546.2	522.2	483.8	432.0	375.9	313.9	248.6	181.7	118.7	22.6
57.5°	543.2	536.6	513.7	474.3	423.1	365.7	303.7	237.5	168.9	106.6	15.7
60°	530.7	524.2	501.9	463.5	413.0	354.3	292.6	226.0	157.5	94.5	9.8
62.5°	517.6	511.4	488.1	450.0	400.2	342.1	280.5	214.5	145.3	83.3	5.9
65°	500.2	494.3	473.3	434.0	386.1	329.0	267.0	200.7	132.8	70.9	3.3
67.5°	481.9	476.6	455.3	419.2	369.7	314.6	253.2	187.3	119.7	60.0	1.6
70°	462.2	455.6	435.9	399.2	353.0	298.2	238.1	173.5	107.3	49.5	0.0
72.5°	439.2	434.3	415.3	380.5	333.6	280.8	222.7	158.4	93.5	39.4	0.3
75°	416.9	410.7	393.3	360.5	314.6	262.4	205.7	144.3	80.0	30.2	0.3
77.5°	388.1	386.1	369.7	337.9	296.5	244.7	187.0	127.3	67.2	21.6	0.3
80°	359.2	357.2	344.4	315.2	275.5	223.7	169.6	111.2	54.8	14.4	0.3
82.5°	330.6	328.0	315.9	291.6	254.2	206.0	151.5	95.1	43.3	8.9	0.3
85°	305.1	301.8	288.7	266.4	232.2	186.0	132.8	79.4	32.1	4.9	0.7
87.5°	283.1	280.8	266.4	243.4	209.9	167.3	116.4	64.3	22.6	2.3	1.0
90°	264.4	259.5	246.7	222.4	188.9	146.6	99.1	51.5	15.1	1.3	1.3
92.5°	246.0	241.8	227.6	202.7	170.2	128.9	82.3	39.4	9.5	0.7	1.6
95°	227.0	222.4	208.6	185.7	151.2	110.9	67.6	28.9	5.2	0.7	1.6
97.5°	208.3	204.0	189.6	166.6	134.2	95.1	53.5	20.3	2.6	0.7	1.3
100°	190.9	186.0	172.9	149.9	117.1	79.4	41.3	13.1	1.6	0.7	1.3
102.5°	172.5	168.6	155.2	132.8	99.4	64.6	30.8	8.2	0.7	0.7	1.0
105°	156.1	151.2	138.1	115.1	84.6	50.8	21.6	4.9	0.7	0.7	1.0



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CATALOG NUMBER: FCC-X-2-LD4-1STD-30-UNV-80-88-ED1D

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	101.7	97.8	86.3	66.9	43.0	20.0	5.9	1.0	1.0	1.0	1.0
115°	85.0	79.1	68.9	51.8	31.8	13.1	3.0	1.0	1.0	1.0	1.0
117.5°	67.9	63.0	55.8	39.4	21.0	8.5	1.6	1.0	1.0	1.0	1.0
120°	53.1	48.5	40.3	27.2	14.1	4.9	0.7	1.0	1.0	1.0	1.0
122.5°	38.1	34.4	27.2	17.7	8.5	2.3	1.0	1.0	1.3	1.3	1.0
125°	25.3	23.3	18.0	10.8	5.2	1.0	1.0	1.0	1.3	1.3	1.0
127.5°	16.4	14.8	10.5	6.2	2.3	1.0	1.0	1.3	1.3	1.3	1.0
130°	9.2	8.2	6.2	3.6	1.0	1.0	1.0	1.3	1.3	1.3	1.0
132.5°	5.2	4.9	3.3	0.7	1.0	1.0	1.0	1.3	1.3	1.3	1.3
135°	1.3	0.7	0.7	0.7	1.0	1.0	1.3	1.3	1.6	1.6	1.3
137.5°	0.3	0.3	0.7	0.7	1.0	1.0	1.3	1.6	1.6	1.6	1.3
140°	0.3	0.3	0.7	1.0	1.0	1.0	1.3	1.6	1.6	1.6	1.3
142.5°	0.3	0.7	0.7	1.0	1.0	1.3	1.3	1.6	1.6	1.3	1.3
145°	0.3	0.7	0.7	1.0	1.0	1.3	1.3	1.6	1.3	1.3	1.3
147.5°	0.7	0.7	0.7	1.0	1.0	1.3	1.3	1.6	1.6	1.3	1.3
150°	0.3	0.7	0.7	1.0	1.3	1.3	1.3	1.6	1.3	1.3	1.3
152.5°	0.3	0.7	0.7	1.0	1.3	1.3	1.3	1.6	1.3	1.3	1.3
155°	0.7	0.7	0.7	1.0	1.3	1.3	1.3	1.6	1.3	1.3	1.6
157.5°	0.7	0.7	0.7	1.0	1.3	1.3	1.3	1.6	1.3	1.3	1.6
160°	0.7	0.7	0.7	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.3
162.5°	0.7	0.7	0.7	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.3
165°	0.7	0.7	0.7	0.7	1.0	1.0	1.3	1.3	1.3	1.3	1.3
167.5°	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3
170°	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.6	1.6	1.6	1.6
172.5°	0.7	0.7	0.7	1.0	1.0	1.3	1.3	1.6	1.6	1.6	1.6
175°	0.7	0.7	0.7	1.0	1.0	1.3	1.3	1.6	1.6	1.6	1.6
177.5°	0.3	0.7	0.7	1.0	1.0	1.3	1.3	1.6	1.6	1.6	1.3
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	257.5	257.5	257.5
2.5°	245.0	240.4	239.1
5°	231.9	224.4	220.1
7.5°	218.8	208.6	203.7
10°	206.7	192.2	187.0
12.5°	192.2	175.5	167.3
15°	178.4	156.8	148.9
17.5°	163.0	138.8	129.6
20°	148.6	120.7	111.2
22.5°	132.2	103.0	92.5
25°	117.4	85.3	73.5
27.5°	101.0	67.2	57.1
30°	85.6	51.5	41.3
32.5°	70.9	37.7	28.5
35°	57.1	25.6	18.0
37.5°	44.0	15.7	9.2
40°	31.8	8.2	4.3
42.5°	21.3	3.9	2.3
45°	13.1	2.0	0.0
47.5°	7.5	0.0	0.0
50°	3.9	0.0	0.0
52.5°	1.6	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°	0.3	0.3	0.3
77.5°	0.3	0.7	1.0
80°	0.7	1.3	1.6
82.5°	1.3	1.6	1.6
85°	1.3	1.6	2.0
87.5°	1.6	2.0	2.3
90°	2.0	2.3	2.3
92.5°	2.0	2.6	2.6
95°	2.3	2.6	3.0
97.5°	2.6	3.0	3.0
100°	2.3	3.0	3.3
102.5°	2.0	3.0	3.0
105°	1.6	2.3	2.6



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.3	1.6	1.6
115°	1.0	1.3	1.6
117.5°	1.0	1.3	1.3
120°	1.0	1.0	1.3
122.5°	1.0	1.0	1.3
125°	1.0	1.0	1.3
127.5°	1.3	1.0	1.0
130°	1.0	1.0	1.0
132.5°	1.3	1.0	1.0
135°	1.3	1.0	1.0
137.5°	1.3	1.0	1.0
140°	1.3	1.0	1.0
142.5°	1.3	1.0	1.0
145°	1.0	1.0	1.0
147.5°	1.0	1.0	1.0
150°	1.0	1.0	0.7
152.5°	1.0	0.7	0.7
155°	1.0	0.7	0.3
157.5°	1.3	0.7	0.3
160°	1.0	0.7	0.3
162.5°	1.0	0.7	0.3
165°	1.0	0.7	0.0
167.5°	1.0	0.7	0.3
170°	1.0	0.7	0.3
172.5°	1.0	0.7	0.3
175°	1.0	0.3	0.3
177.5°	1.0	0.3	0.3
180°	1.0	1.0	1.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	137.8	133.8	120.7	99.1	69.2	38.7	14.4	2.6	0.7	1.0	1.0
110°	120.1	116.8	103.3	82.3	55.8	28.9	9.5	1.6	1.0	1.0	1.0





107.5°	1.3	2.0	2.3
110°	1.3	1.6	2.0



(END OF REPORT)