

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: P551008

Luminaire Tested: **FCC-X-2-LD4-1STD-35-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: P551008
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-35-UNV-80-88-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

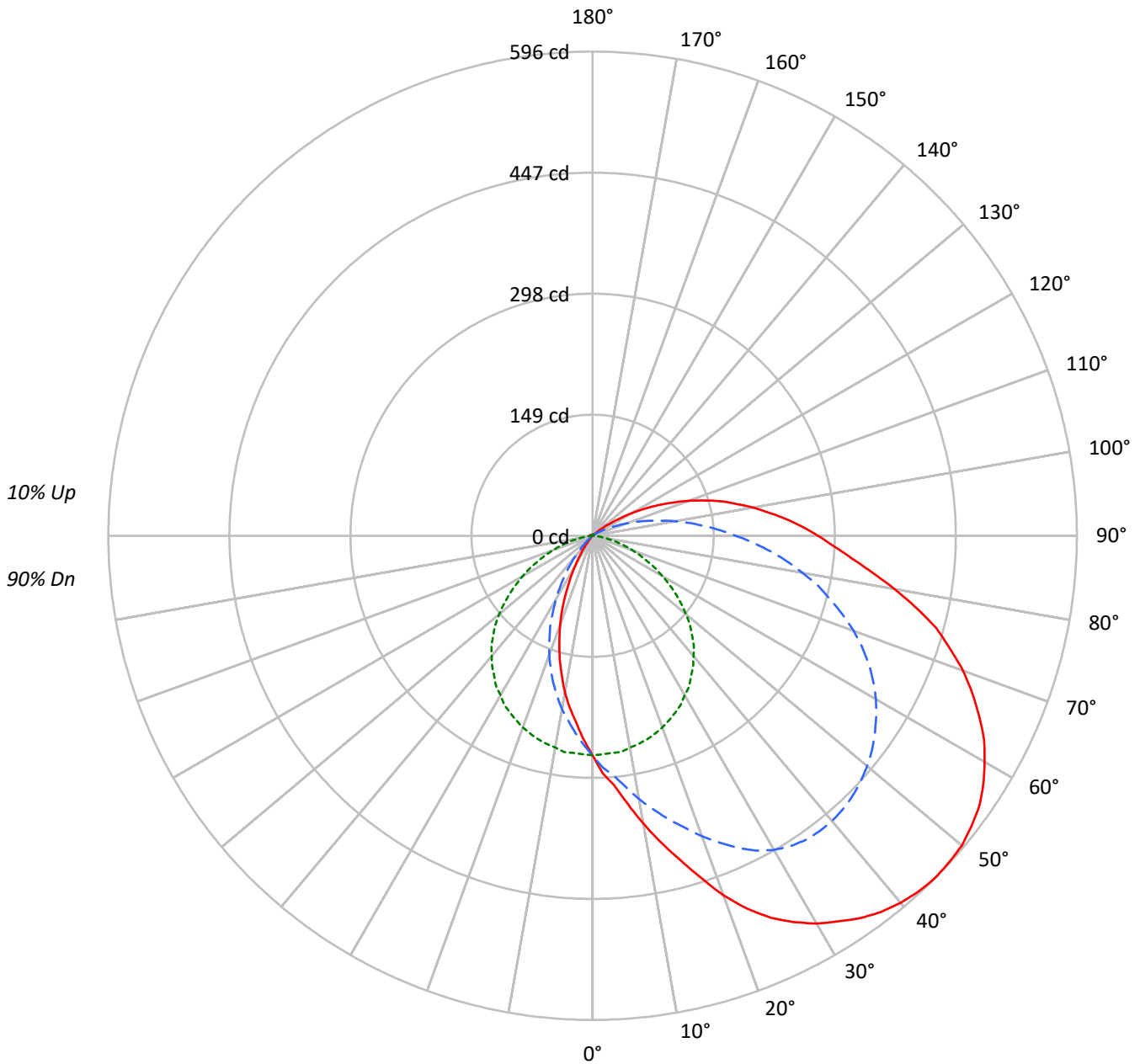
Lumens per Lamp: N/A
Luminaire Lumens: 1336.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 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

TEST NUMBER: P551008

CATALOG NUMBER: FCC-X-2-LD4-1STD-35-UNV-80-88-ED1D

Luminous Intensity Polar Plot





TEST NUMBER: P551008

CATALOG NUMBER: FCC-X-2-LD4-1STD-35-UNV-80-88-ED1D

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°	2908	2908	2908
5°	3194	2867	2391
10°	3613	2831	1971
15°	4050	2795	1536
20°	4567	2750	1131
25°	4997	2697	743
30°	5316	2626	419
35°	5592	2549	184
40°	5837	2456	45
45°	6047	2338	0
50°	6225	2183	0
55°	6359	1984	0
60°	6426	1754	0
65°	6453	1494	0
70°	6432	1218	0
75°	6349	899	4
80°	6093	548	27
85°	5889	264	39



TEST NUMBER: P551008

CATALOG NUMBER: FCC-X-2-LD4-1STD-35-UNV-80-88-ED1D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	1.9
10°-20°	77.5	5.8
20°-30°	125.5	9.4
30°-40°	161.2	12.1
40°-50°	182.5	13.7
50°-60°	189.1	14.2
60°-70°	178.3	13.3
70°-80°	149.4	11.2
80°-90°	108.3	8.1
90°-100°	71.2	5.3
100°-110°	41.1	3.1
110°-120°	18.1	1.4
120°-130°	4.9	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°	228.9	17.1
0°-40°	390.1	29.2
0°-60°	761.7	57.0
0°-90°	1197.8	89.7
90°-120°	130.5	9.8
90°-150°	137.2	10.3
90°-180°	138.0	10.3
0°-180°	1336.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	270	270	270	270	270	
5°	308	296	268	243	231	31
15°	412	361	259	187	156	119
25°	519	424	240	123	77	240
35°	575	457	211	60	19	360
45°	596	453	173	14	0	460
55°	581	424	125	0	0	519
65°	525	375	74	0	0	519
75°	438	303	32	0	0	459
85°	320	219	5	1	2	273
90°	278	176	1	2	2	152
95°	238	138	1	2	3	187
105°	164	71	1	2	3	173
115°	89	24	1	1	2	89
125°	26	3	1	1	1	26
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	



TEST NUMBER: P551008

CATALOG NUMBER: FCC-X-2-LD4-1STD-35-UNV-80-88-ED1D

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
0°	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2
2.5°	293.0	292.6	291.6	289.9	287.5	283.3	279.9	276.8	272.7	269.2	262.7
5°	308.5	306.7	305.4	303.6	298.1	294.3	288.1	281.3	274.7	268.2	255.1
7.5°	333.2	330.5	328.4	323.6	316.0	307.4	297.8	291.2	286.8	268.5	246.1
10°	359.7	357.3	353.2	344.6	335.3	322.9	309.1	293.7	279.9	264.7	238.2
12.5°	385.9	382.5	376.6	365.6	352.5	337.0	318.1	299.8	280.2	262.3	228.9
15°	412.1	408.3	402.1	388.7	371.5	351.1	328.1	305.0	281.9	259.2	219.3
17.5°	440.6	435.5	426.2	411.0	389.4	364.2	337.0	309.1	281.3	255.4	209.0
20°	471.3	464.1	454.1	433.8	408.3	378.7	346.0	313.3	280.9	251.0	197.3
22.5°	496.8	489.5	478.5	457.5	426.9	390.7	353.6	316.0	279.5	245.8	186.2
25°	518.8	512.9	500.9	476.8	444.4	403.5	360.8	318.1	277.5	240.3	174.5
27.5°	536.0	530.5	517.1	492.3	459.2	414.8	366.3	319.1	274.7	234.8	162.5
30°	551.2	545.6	529.5	504.0	469.2	423.8	371.8	319.5	271.3	226.5	149.4
32.5°	562.9	557.7	541.2	514.0	476.1	430.0	374.9	319.1	266.8	220.7	135.3
35°	574.6	569.4	550.1	521.2	481.3	432.7	377.3	317.4	261.3	211.0	121.9
37.5°	583.5	577.7	558.0	526.0	483.7	433.4	377.0	315.0	255.4	203.1	108.4
40°	589.7	583.5	562.5	528.8	484.4	432.4	374.2	310.9	248.6	193.1	94.3
42.5°	593.8	587.0	564.6	532.9	483.0	429.6	370.1	305.7	241.0	184.5	80.9
45°	595.9	588.7	564.9	529.5	480.6	424.5	363.9	299.2	232.7	172.8	67.5
47.5°	594.9	587.0	563.2	525.7	476.1	419.0	357.0	291.2	222.7	162.5	54.7
50°	593.2	584.9	559.4	520.9	469.9	412.1	349.4	281.6	212.4	149.8	43.4
52.5°	587.6	579.4	555.3	514.0	462.7	404.2	339.1	271.6	201.4	137.4	33.0
55°	580.8	573.2	548.1	507.8	453.4	394.5	329.5	260.9	190.7	124.6	23.8
57.5°	570.1	563.2	539.1	497.8	444.1	383.8	318.8	249.2	177.3	111.9	16.5
60°	557.0	550.1	526.7	486.4	433.4	371.8	307.1	237.2	165.2	99.1	10.3
62.5°	543.2	536.7	512.3	472.3	420.0	359.1	294.3	225.1	152.5	87.4	6.2
65°	525.0	518.8	496.8	455.5	405.2	345.3	280.2	210.7	139.4	74.4	3.4
67.5°	505.7	500.2	477.8	440.0	388.0	330.1	265.8	196.6	125.7	63.0	1.7
70°	485.1	478.2	457.5	419.0	370.4	312.9	249.9	182.1	112.6	52.0	0.0
72.5°	461.0	455.8	435.8	399.3	350.1	294.7	233.7	166.3	98.1	41.3	0.3
75°	437.5	431.0	412.8	378.3	330.1	275.4	215.8	151.5	84.0	31.7	0.3
77.5°	407.3	405.2	388.0	354.6	311.2	256.8	196.2	133.6	70.6	22.7	0.3
80°	377.0	374.9	361.5	330.8	289.2	234.8	178.0	116.7	57.5	15.1	0.3
82.5°	347.0	344.3	331.5	306.0	266.8	216.2	159.0	99.8	45.4	9.3	0.3
85°	320.2	316.7	302.9	279.5	243.7	195.2	139.4	83.3	33.7	5.2	0.7
87.5°	297.1	294.7	279.5	255.4	220.3	175.6	122.2	67.5	23.8	2.4	1.0
90°	277.5	272.3	258.9	233.4	198.3	153.9	104.0	54.0	15.8	1.4	1.4
92.5°	258.2	253.7	238.9	212.8	178.7	135.3	86.4	41.3	10.0	0.7	1.7
95°	238.2	233.4	218.9	194.8	158.7	116.4	70.9	30.3	5.5	0.7	1.7
97.5°	218.6	214.1	199.0	174.9	140.8	99.8	56.1	21.3	2.8	0.7	1.4
100°	200.4	195.2	181.4	157.3	122.9	83.3	43.4	13.8	1.7	0.7	1.4
102.5°	181.1	176.9	162.8	139.4	104.3	67.8	32.4	8.6	0.7	0.7	1.0
105°	163.9	158.7	144.9	120.8	88.8	53.4	22.7	5.2	0.7	0.7	1.0



TEST NUMBER: P551008

CATALOG NUMBER: FCC-X-2-LD4-1STD-35-UNV-80-88-ED1D

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	106.7	102.6	90.5	70.2	45.1	21.0	6.2	1.0	1.0	1.0	1.0
115°	89.2	83.0	72.3	54.4	33.4	13.8	3.1	1.0	1.0	1.0	1.0
117.5°	71.3	66.1	58.5	41.3	22.0	9.0	1.7	1.0	1.0	1.0	1.0
120°	55.8	50.9	42.3	28.6	14.8	5.2	0.7	1.0	1.0	1.0	1.0
122.5°	39.9	36.1	28.6	18.6	9.0	2.4	1.0	1.0	1.4	1.4	1.0
125°	26.5	24.4	18.9	11.4	5.5	1.0	1.0	1.0	1.4	1.4	1.0
127.5°	17.2	15.5	11.0	6.5	2.4	1.0	1.0	1.4	1.4	1.4	1.0
130°	9.6	8.6	6.5	3.8	1.0	1.0	1.0	1.4	1.4	1.4	1.0
132.5°	5.5	5.2	3.4	0.7	1.0	1.0	1.0	1.4	1.4	1.4	1.4
135°	1.4	0.7	0.7	0.7	1.0	1.0	1.4	1.4	1.7	1.7	1.4
137.5°	0.3	0.3	0.7	0.7	1.0	1.0	1.4	1.7	1.7	1.7	1.4
140°	0.3	0.3	0.7	1.0	1.0	1.0	1.4	1.7	1.7	1.7	1.4
142.5°	0.3	0.7	0.7	1.0	1.0	1.4	1.4	1.7	1.7	1.4	1.4
145°	0.3	0.7	0.7	1.0	1.0	1.4	1.4	1.7	1.4	1.4	1.4
147.5°	0.7	0.7	0.7	1.0	1.0	1.4	1.4	1.7	1.7	1.4	1.4
150°	0.3	0.7	0.7	1.0	1.4	1.4	1.4	1.7	1.4	1.4	1.4
152.5°	0.3	0.7	0.7	1.0	1.4	1.4	1.4	1.7	1.4	1.4	1.4
155°	0.7	0.7	0.7	1.0	1.4	1.4	1.4	1.7	1.4	1.4	1.7
157.5°	0.7	0.7	0.7	1.0	1.4	1.4	1.4	1.7	1.4	1.4	1.7
160°	0.7	0.7	0.7	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.4
162.5°	0.7	0.7	0.7	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.4
165°	0.7	0.7	0.7	0.7	1.0	1.0	1.4	1.4	1.4	1.4	1.4
167.5°	0.7	0.7	0.7	1.0	1.0	1.0	1.4	1.4	1.4	1.4	1.4
170°	0.7	0.7	0.7	1.0	1.0	1.0	1.4	1.7	1.7	1.7	1.7
172.5°	0.7	0.7	0.7	1.0	1.0	1.4	1.4	1.7	1.7	1.7	1.7
175°	0.7	0.7	0.7	1.0	1.0	1.4	1.4	1.7	1.7	1.7	1.7
177.5°	0.3	0.7	0.7	1.0	1.0	1.4	1.4	1.7	1.7	1.7	1.4
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P551008

CATALOG NUMBER: FCC-X-2-LD4-1STD-35-UNV-80-88-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	270.2	270.2	270.2
2.5°	257.2	252.3	251.0
5°	243.4	235.5	231.0
7.5°	229.6	218.9	213.8
10°	216.9	201.7	196.2
12.5°	201.7	184.2	175.6
15°	187.3	164.6	156.3
17.5°	171.1	145.6	136.0
20°	155.9	126.7	116.7
22.5°	138.7	108.1	97.1
25°	123.2	89.5	77.1
27.5°	106.0	70.6	59.9
30°	89.9	54.0	43.4
32.5°	74.4	39.6	30.0
35°	59.9	26.9	18.9
37.5°	46.1	16.5	9.6
40°	33.4	8.6	4.5
42.5°	22.4	4.1	2.4
45°	13.8	2.1	0.0
47.5°	7.9	0.0	0.0
50°	4.1	0.0	0.0
52.5°	1.7	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	1.4	1.7
82.5°	1.4	1.7	1.7
85°	1.4	1.7	2.1
87.5°	1.7	2.1	2.4
90°	2.1	2.4	2.4
92.5°	2.1	2.8	2.8
95°	2.4	2.8	3.1
97.5°	2.8	3.1	3.1
100°	2.4	3.1	3.4
102.5°	2.1	3.1	3.1
105°	1.7	2.4	2.8



TEST NUMBER: P551008

CATALOG NUMBER: FCC-X-2-LD4-1STD-35-UNV-80-88-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	1.4	1.7	1.7
115°	1.0	1.4	1.7
117.5°	1.0	1.4	1.4
120°	1.0	1.0	1.4
122.5°	1.0	1.0	1.4
125°	1.0	1.0	1.4
127.5°	1.4	1.0	1.0
130°	1.0	1.0	1.0
132.5°	1.4	1.0	1.0
135°	1.4	1.0	1.0
137.5°	1.4	1.0	1.0
140°	1.4	1.0	1.0
142.5°	1.4	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°	1.4	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°	144.6	140.5	126.7	104.0	72.6	40.6	15.1	2.8	0.7	1.0	1.0
110°	126.0	122.6	108.4	86.4	58.5	30.3	10.0	1.7	1.0	1.0	1.0





107.5°	1.4	2.1	2.4
110°	1.4	1.7	2.1



(END OF REPORT)