

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: P550626

Luminaire Tested: **FCC-X-2-LD4-1HI-50-UNV-80-94-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: P550626
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-LD4-1HI-50-UNV-80-94-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 5000K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

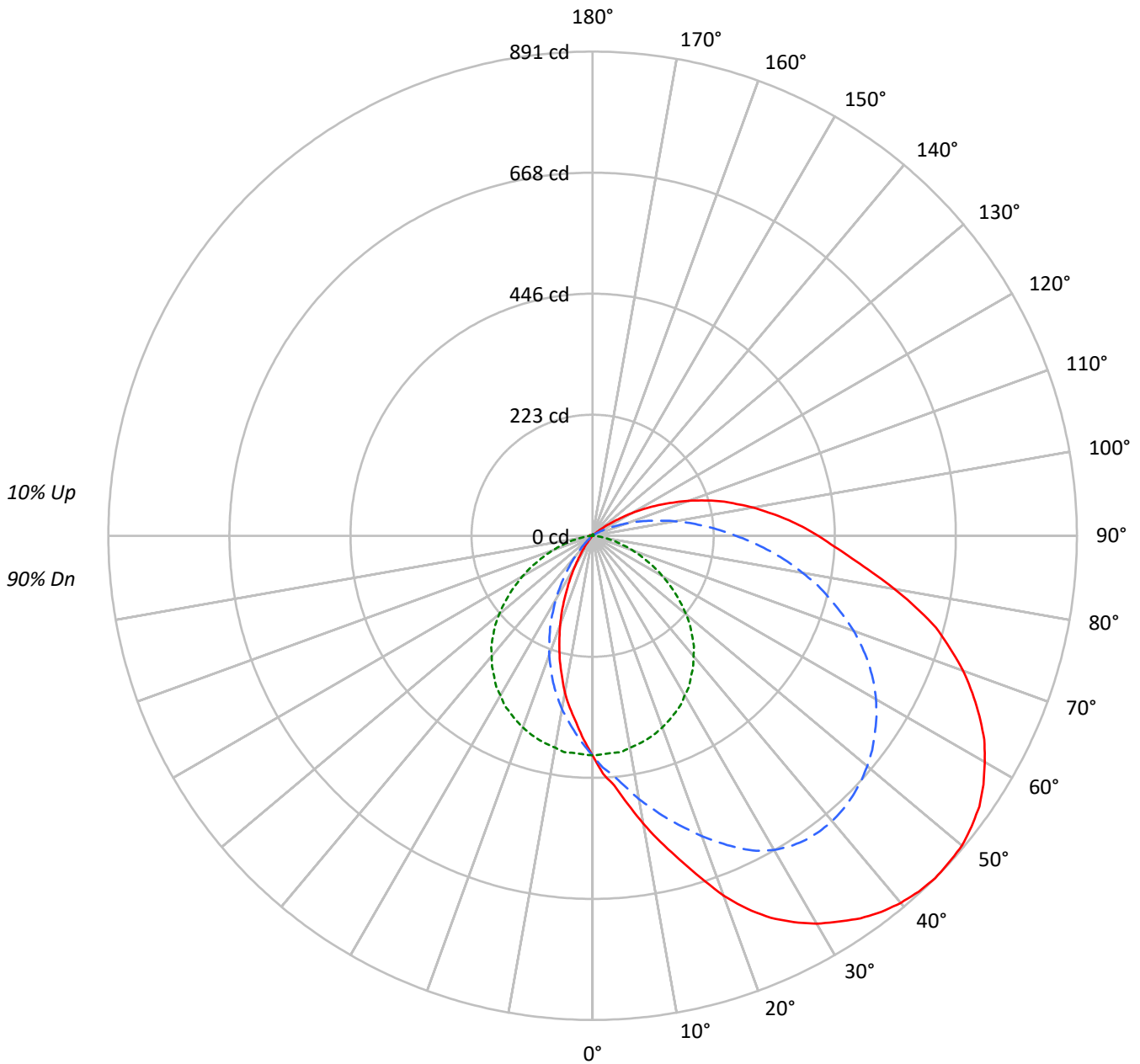
Lumens per Lamp: N/A
Luminaire Lumens: 1998.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 21.7
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

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CATALOG NUMBER: FCC-X-2-LD4-1HI-50-UNV-80-94-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°	4350	4350	4350
5°	4775	4287	3577
10°	5404	4234	2948
15°	6056	4180	2297
20°	6830	4112	1691
25°	7473	4033	1110
30°	7950	3928	626
35°	8363	3813	275
40°	8729	3673	66
45°	9044	3496	0
50°	9308	3265	0
55°	9509	2968	0
60°	9610	2624	0
65°	9649	2233	0
70°	9618	1820	0
75°	9496	1344	7
80°	9110	823	42
85°	8806	392	57



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.9
10°-20°	115.9	5.8
20°-30°	187.7	9.4
30°-40°	241.1	12.1
40°-50°	273.0	13.7
50°-60°	282.8	14.2
60°-70°	266.7	13.3
70°-80°	223.5	11.2
80°-90°	162.0	8.1
90°-100°	106.5	5.3
100°-110°	61.5	3.1
110°-120°	27.1	1.4
120°-130°	7.3	0.4
130°-140°	1.7	0.1
140°-150°	1.1	0.1
150°-160°	0.8	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	342.3	17.1
0°-40°	583.5	29.2
0°-60°	1139.2	57.0
0°-90°	1791.4	89.7
90°-120°	195.1	9.8
90°-150°	205.2	10.3
90°-180°	207.0	10.4
0°-180°	1998.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	404	404	404	404	404	
5°	461	443	401	364	346	47
15°	616	540	388	280	234	178
25°	776	634	359	184	115	359
35°	859	683	316	90	28	539
45°	891	677	258	21	0	688
55°	868	634	186	0	0	776
65°	785	561	111	0	0	777
75°	654	453	47	0	0	686
85°	479	328	8	2	3	409
90°	415	263	2	3	4	228
95°	356	206	1	4	5	280
105°	245	106	1	3	4	259
115°	133	35	2	2	3	134
125°	40	5	2	2	2	40
135°	2	2	3	2	2	4
145°	0	2	2	2	2	0
155°	1	2	2	2	0	0
165°	1	2	2	2	0	0
175°	1	2	3	2	0	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°	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1
2.5°	438.1	437.6	436.1	433.5	429.9	423.7	418.6	413.9	407.8	402.6	392.8
5°	461.3	458.7	456.7	454.1	445.8	440.2	430.9	420.6	410.8	401.1	381.5
7.5°	498.4	494.2	491.2	483.9	472.6	459.7	445.3	435.6	428.9	401.6	368.1
10°	538.0	534.4	528.2	515.4	501.5	482.9	462.3	439.2	418.6	395.9	356.3
12.5°	577.1	572.0	563.2	546.8	527.2	504.0	475.7	448.4	419.1	392.3	342.4
15°	616.3	610.6	601.3	581.3	555.5	525.1	490.6	456.1	421.7	387.7	328.0
17.5°	659.0	651.3	637.4	614.7	582.3	544.7	504.0	462.3	420.6	382.0	312.5
20°	704.8	694.0	679.1	648.7	610.6	566.3	517.4	468.5	420.1	375.3	295.0
22.5°	742.9	732.1	715.6	684.2	638.4	584.3	528.7	472.6	418.0	367.6	278.5
25°	775.9	767.1	749.1	713.0	664.7	603.4	539.5	475.7	415.0	359.4	261.0
27.5°	801.6	793.4	773.3	736.2	686.8	620.4	547.8	477.3	410.8	351.1	243.0
30°	824.3	816.0	791.8	753.7	701.7	633.8	556.0	477.8	405.7	338.8	223.4
32.5°	841.8	834.0	809.3	768.7	712.0	643.0	560.7	477.3	399.0	330.0	202.3
35°	859.3	851.5	822.7	779.5	719.7	647.2	564.3	474.7	390.8	315.6	182.3
37.5°	872.6	863.9	834.6	786.7	723.3	648.2	563.7	471.1	382.0	303.8	162.2
40°	881.9	872.6	841.2	790.8	724.4	646.6	559.6	464.9	371.7	288.8	141.1
42.5°	888.1	877.8	844.3	797.0	722.3	642.5	553.5	457.2	360.4	276.0	121.0
45°	891.2	880.4	844.8	791.8	718.7	634.8	544.2	447.4	348.0	258.4	100.9
47.5°	889.6	877.8	842.3	786.2	712.0	626.6	533.9	435.6	333.1	243.0	81.9
50°	887.1	874.7	836.6	778.9	702.8	616.3	522.6	421.1	317.7	224.0	64.9
52.5°	878.8	866.5	830.4	768.7	691.9	604.4	507.1	406.2	301.2	205.4	49.4
55°	868.5	857.2	819.6	759.4	678.0	590.0	492.7	390.2	285.2	186.4	35.5
57.5°	852.6	842.3	806.2	744.5	664.1	574.0	476.7	372.7	265.1	167.3	24.7
60°	833.0	822.7	787.7	727.5	648.2	556.0	459.2	354.7	247.1	148.3	15.4
62.5°	812.4	802.6	766.1	706.4	628.1	537.0	440.2	336.7	228.1	130.8	9.3
65°	785.1	775.9	742.9	681.1	606.0	516.4	419.1	315.1	208.5	111.2	5.1
67.5°	756.3	748.1	714.6	658.0	580.2	493.7	397.5	294.0	187.9	94.2	2.6
70°	725.4	715.1	684.2	626.6	554.0	468.0	373.8	272.3	168.4	77.7	0.0
72.5°	689.4	681.6	651.8	597.2	523.6	440.7	349.6	248.7	146.7	61.8	0.5
75°	654.4	644.6	617.3	565.8	493.7	411.9	322.8	226.5	125.6	47.4	0.5
77.5°	609.1	606.0	580.2	530.3	465.4	384.1	293.5	199.8	105.5	34.0	0.5
80°	563.7	560.7	540.6	494.8	432.5	351.1	266.2	174.5	86.0	22.7	0.5
82.5°	519.0	514.8	495.8	457.7	399.0	323.3	237.9	149.3	68.0	13.9	0.5
85°	478.8	473.7	453.1	418.0	364.5	291.9	208.5	124.6	50.5	7.7	1.0
87.5°	444.3	440.7	418.0	382.0	329.5	262.6	182.8	100.9	35.5	3.6	1.5
90°	415.0	407.2	387.2	349.1	296.5	230.1	155.5	80.8	23.7	2.1	2.1
92.5°	386.1	379.4	357.3	318.2	267.2	202.3	129.2	61.8	14.9	1.0	2.6
95°	356.3	349.1	327.4	291.4	237.3	174.0	106.1	45.3	8.2	1.0	2.6
97.5°	326.9	320.2	297.6	261.5	210.6	149.3	83.9	31.9	4.1	1.0	2.1
100°	299.6	291.9	271.3	235.3	183.8	124.6	64.9	20.6	2.6	1.0	2.1
102.5°	270.8	264.6	243.5	208.5	156.0	101.4	48.4	12.9	1.0	1.0	1.5
105°	245.1	237.3	216.7	180.7	132.8	79.8	34.0	7.7	1.0	1.0	1.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	159.6	153.4	135.4	105.0	67.4	31.4	9.3	1.5	1.5	1.5	1.5
115°	133.3	124.1	108.1	81.3	49.9	20.6	4.6	1.5	1.5	1.5	1.5
117.5°	106.6	98.8	87.5	61.8	32.9	13.4	2.6	1.5	1.5	1.5	1.5
120°	83.4	76.2	63.3	42.7	22.1	7.7	1.0	1.5	1.5	1.5	1.5
122.5°	59.7	54.1	42.7	27.8	13.4	3.6	1.5	1.5	2.1	2.1	1.5
125°	39.6	36.6	28.3	17.0	8.2	1.5	1.5	1.5	2.1	2.1	1.5
127.5°	25.7	23.2	16.5	9.8	3.6	1.5	1.5	2.1	2.1	2.1	1.5
130°	14.4	12.9	9.8	5.7	1.5	1.5	1.5	2.1	2.1	2.1	1.5
132.5°	8.2	7.7	5.1	1.0	1.5	1.5	1.5	2.1	2.1	2.1	2.1
135°	2.1	1.0	1.0	1.0	1.5	1.5	2.1	2.1	2.6	2.6	2.1
137.5°	0.5	0.5	1.0	1.0	1.5	1.5	2.1	2.6	2.6	2.6	2.1
140°	0.5	0.5	1.0	1.5	1.5	1.5	2.1	2.6	2.6	2.6	2.1
142.5°	0.5	1.0	1.0	1.5	1.5	2.1	2.1	2.6	2.6	2.1	2.1
145°	0.5	1.0	1.0	1.5	1.5	2.1	2.1	2.6	2.1	2.1	2.1
147.5°	1.0	1.0	1.0	1.5	1.5	2.1	2.1	2.6	2.6	2.1	2.1
150°	0.5	1.0	1.0	1.5	2.1	2.1	2.1	2.6	2.1	2.1	2.1
152.5°	0.5	1.0	1.0	1.5	2.1	2.1	2.1	2.6	2.1	2.1	2.1
155°	1.0	1.0	1.0	1.5	2.1	2.1	2.1	2.6	2.1	2.1	2.6
157.5°	1.0	1.0	1.0	1.5	2.1	2.1	2.1	2.6	2.1	2.1	2.6
160°	1.0	1.0	1.0	1.5	1.5	2.1	2.1	2.1	2.1	2.1	2.1
162.5°	1.0	1.0	1.0	1.5	1.5	2.1	2.1	2.1	2.1	2.1	2.1
165°	1.0	1.0	1.0	1.0	1.5	1.5	2.1	2.1	2.1	2.1	2.1
167.5°	1.0	1.0	1.0	1.5	1.5	1.5	2.1	2.1	2.1	2.1	2.1
170°	1.0	1.0	1.0	1.5	1.5	1.5	2.1	2.6	2.6	2.6	2.6
172.5°	1.0	1.0	1.0	1.5	1.5	2.1	2.1	2.6	2.6	2.6	2.6
175°	1.0	1.0	1.0	1.5	1.5	2.1	2.1	2.6	2.6	2.6	2.6
177.5°	0.5	1.0	1.0	1.5	1.5	2.1	2.1	2.6	2.6	2.6	2.1
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	404.1	404.1	404.1
2.5°	384.6	377.4	375.3
5°	364.0	352.1	345.5
7.5°	343.4	327.4	319.7
10°	324.3	301.7	293.5
12.5°	301.7	275.4	262.6
15°	280.1	246.1	233.7
17.5°	255.9	217.8	203.4
20°	233.2	189.5	174.5
22.5°	207.5	161.7	145.2
25°	184.3	133.9	115.3
27.5°	158.6	105.5	89.6
30°	134.4	80.8	64.9
32.5°	111.2	59.2	44.8
35°	89.6	40.2	28.3
37.5°	69.0	24.7	14.4
40°	49.9	12.9	6.7
42.5°	33.5	6.2	3.6
45°	20.6	3.1	0.0
47.5°	11.8	0.0	0.0
50°	6.2	0.0	0.0
52.5°	2.6	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°	0.5	0.5	0.5
77.5°	0.5	1.0	1.5
80°	1.0	2.1	2.6
82.5°	2.1	2.6	2.6
85°	2.1	2.6	3.1
87.5°	2.6	3.1	3.6
90°	3.1	3.6	3.6
92.5°	3.1	4.1	4.1
95°	3.6	4.1	4.6
97.5°	4.1	4.6	4.6
100°	3.6	4.6	5.1
102.5°	3.1	4.6	4.6
105°	2.6	3.6	4.1



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	2.1	2.6	2.6
115°	1.5	2.1	2.6
117.5°	1.5	2.1	2.1
120°	1.5	1.5	2.1
122.5°	1.5	1.5	2.1
125°	1.5	1.5	2.1
127.5°	2.1	1.5	1.5
130°	1.5	1.5	1.5
132.5°	2.1	1.5	1.5
135°	2.1	1.5	1.5
137.5°	2.1	1.5	1.5
140°	2.1	1.5	1.5
142.5°	2.1	1.5	1.5
145°	1.5	1.5	1.5
147.5°	1.5	1.5	1.5
150°	1.5	1.5	1.0
152.5°	1.5	1.0	1.0
155°	1.5	1.0	0.5
157.5°	2.1	1.0	0.5
160°	1.5	1.0	0.5
162.5°	1.5	1.0	0.5
165°	1.5	1.0	0.0
167.5°	1.5	1.0	0.5
170°	1.5	1.0	0.5
172.5°	1.5	1.0	0.5
175°	1.5	0.5	0.5
177.5°	1.5	0.5	0.5
180°	1.5	1.5	1.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	216.2	210.1	189.5	155.5	108.6	60.8	22.7	4.1	1.0	1.5	1.5
110°	188.4	183.3	162.2	129.2	87.5	45.3	14.9	2.6	1.5	1.5	1.5





107.5°	2.1	3.1	3.6
110°	2.1	2.6	3.1



(END OF REPORT)