

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: P551263

Luminaire Tested: **FCC-X-2-LD4-2HI-35-UNV-80-88-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: P551263
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-80-88-ED1D-90
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3500K, AND 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

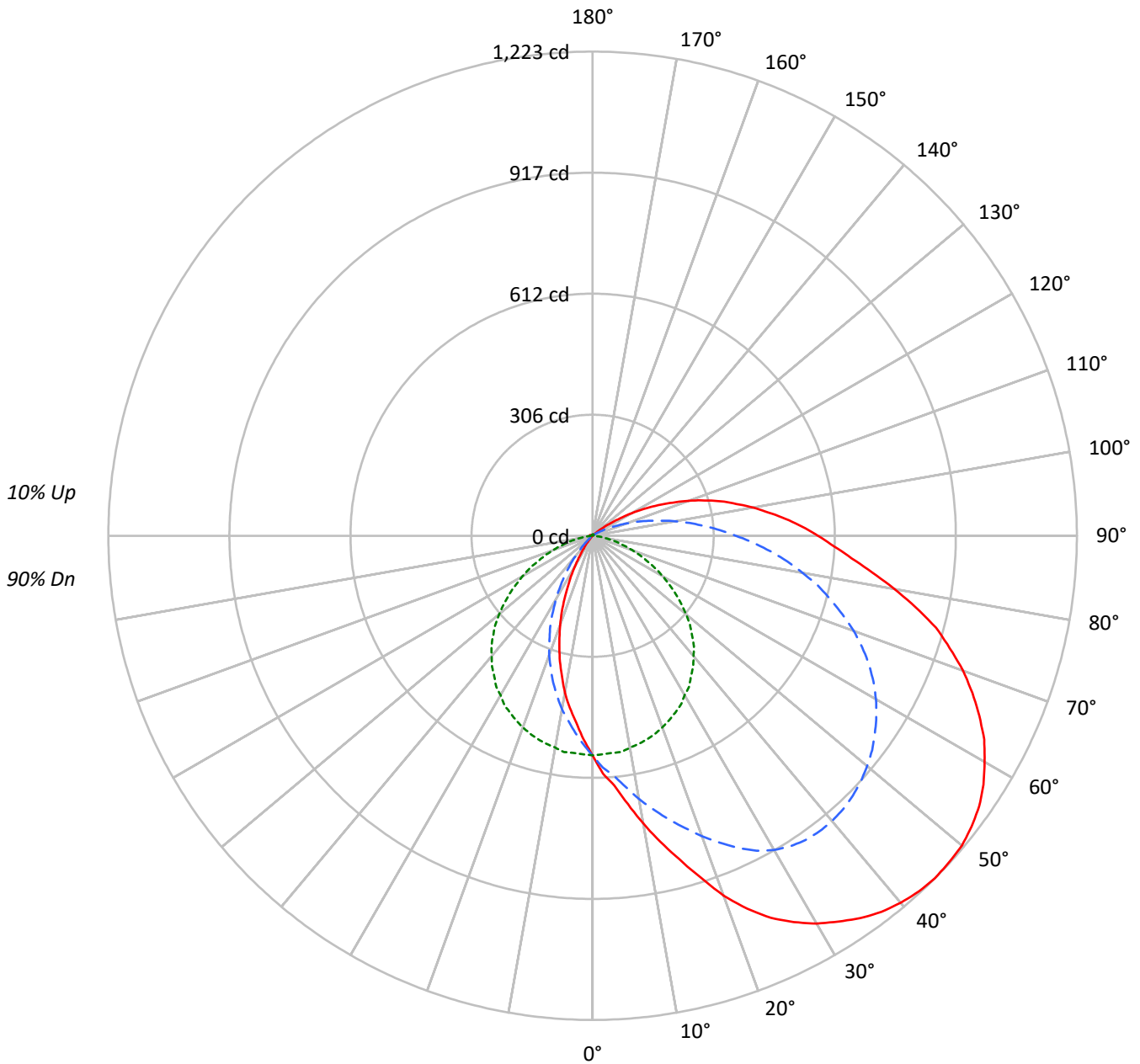
Lumens per Lamp: N/A
Luminaire Lumens: 2741.9 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 43.3
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: P551263

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-80-88-ED1D-90

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°	5970	5970	5970
5°	6554	5883	4908
10°	7416	5810	4045
15°	8311	5736	3153
20°	9374	5644	2321
25°	10255	5535	1525
30°	10910	5389	858
35°	11477	5233	379
40°	11980	5041	91
45°	12411	4799	0
50°	12774	4479	0
55°	13049	4073	0
60°	13189	3601	0
65°	13243	3065	0
70°	13199	2500	0
75°	13031	1843	10
80°	12504	1128	57
85°	12085	539	77



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	1.9
10°-20°	159.1	5.8
20°-30°	257.6	9.4
30°-40°	330.9	12.1
40°-50°	374.6	13.7
50°-60°	388.1	14.2
60°-70°	366.0	13.3
70°-80°	306.7	11.2
80°-90°	222.3	8.1
90°-100°	146.1	5.3
100°-110°	84.4	3.1
110°-120°	37.2	1.4
120°-130°	10.1	0.4
130°-140°	2.3	0.1
140°-150°	1.5	0.1
150°-160°	1.1	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
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0°-30°	469.8	17.1
0°-40°	800.7	29.2
0°-60°	1563.4	57.0
0°-90°	2458.4	89.7
90°-120°	267.7	9.8
90°-150°	281.6	10.3
90°-180°	283.0	10.3
0°-180°	2741.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	555	555	555	555	555	
5°	633	608	550	500	474	64
15°	846	742	532	384	321	244
25°	1065	870	493	253	158	492
35°	1179	938	433	123	39	740
45°	1223	929	355	28	0	944
55°	1192	870	256	0	0	1064
65°	1078	770	153	0	0	1066
75°	898	621	65	1	1	942
85°	657	450	11	3	4	561
90°	570	361	3	4	5	312
95°	489	282	1	5	6	384
105°	336	146	1	4	6	355
115°	183	48	2	2	4	183
125°	54	7	3	2	3	54
135°	3	2	4	3	2	5
145°	1	2	3	2	2	1
155°	1	3	3	2	1	1
165°	1	2	3	2	0	0
175°	1	2	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°	554.6	554.6	554.6	554.6	554.6	554.6	554.6	554.6	554.6	554.6	554.6
2.5°	601.3	600.6	598.4	594.9	590.0	581.5	574.4	568.1	559.6	552.5	539.1
5°	633.1	629.5	626.7	623.2	611.9	604.1	591.4	577.3	563.8	550.4	523.6
7.5°	683.9	678.3	674.0	664.2	648.6	630.9	611.2	597.7	588.6	551.1	505.2
10°	738.3	733.4	724.9	707.3	688.2	662.7	634.5	602.7	574.4	543.3	488.9
12.5°	792.0	785.0	773.0	750.4	723.5	691.7	652.9	615.4	575.1	538.4	469.9
15°	845.7	838.0	825.2	797.7	762.4	720.7	673.3	626.0	578.7	532.0	450.1
17.5°	904.4	893.8	874.7	843.6	799.1	747.5	691.7	634.5	577.3	524.3	428.9
20°	967.3	952.4	931.9	890.3	838.0	777.2	710.1	643.0	576.5	515.1	404.9
22.5°	1019.5	1004.7	982.1	939.0	876.1	801.9	725.6	648.6	573.7	504.5	382.2
25°	1064.8	1052.8	1028.0	978.6	912.2	828.1	740.5	652.9	569.5	493.2	358.2
27.5°	1100.1	1088.8	1061.2	1010.4	942.5	851.4	751.8	655.0	563.8	481.9	333.5
30°	1131.2	1119.9	1086.7	1034.4	963.0	869.8	763.1	655.7	556.8	464.9	306.6
32.5°	1155.2	1144.6	1110.7	1054.9	977.2	882.5	769.4	655.0	547.6	452.9	277.7
35°	1179.2	1168.6	1129.1	1069.7	987.8	888.1	774.4	651.4	536.3	433.1	250.1
37.5°	1197.6	1185.6	1145.3	1079.6	992.7	889.5	773.7	646.5	524.3	416.9	222.6
40°	1210.3	1197.6	1154.5	1085.3	994.1	887.4	768.0	638.0	510.1	396.4	193.6
42.5°	1218.8	1204.7	1158.7	1093.7	991.3	881.8	759.5	627.4	494.6	378.7	166.0
45°	1223.0	1208.2	1159.4	1086.7	986.3	871.2	746.8	614.0	477.6	354.7	138.5
47.5°	1220.9	1204.7	1155.9	1078.9	977.2	859.9	732.7	597.7	457.1	333.5	112.3
50°	1217.4	1200.4	1148.1	1069.0	964.4	845.7	717.1	578.0	435.9	307.3	89.0
52.5°	1206.1	1189.1	1139.7	1054.9	949.6	829.5	696.0	557.5	413.3	281.9	67.8
55°	1191.9	1176.4	1124.8	1042.2	930.5	809.7	676.2	535.6	391.4	255.8	48.8
57.5°	1170.0	1155.9	1106.5	1021.7	911.4	787.8	654.3	511.5	363.9	229.6	33.9
60°	1143.2	1129.1	1081.0	998.4	889.5	763.1	630.2	486.8	339.1	203.5	21.2
62.5°	1114.9	1101.5	1051.3	969.4	862.0	736.9	604.1	462.1	313.0	179.5	12.7
65°	1077.5	1064.8	1019.5	934.8	831.6	708.7	575.1	432.4	286.2	152.6	7.1
67.5°	1037.9	1026.6	980.7	903.0	796.3	677.6	545.5	403.4	257.9	129.3	3.5
70°	995.5	981.4	939.0	859.9	760.2	642.3	513.0	373.8	231.0	106.7	0.0
72.5°	946.1	935.5	894.5	819.6	718.6	604.8	479.7	341.3	201.4	84.8	0.7
75°	898.0	884.6	847.2	776.5	677.6	565.2	443.0	310.9	172.4	65.0	0.7
77.5°	835.8	831.6	796.3	727.7	638.7	527.1	402.7	274.1	144.8	46.6	0.7
80°	773.7	769.4	741.9	679.0	593.5	481.9	365.3	239.5	118.0	31.1	0.7
82.5°	712.2	706.5	680.4	628.1	547.6	443.7	326.4	204.9	93.3	19.1	0.7
85°	657.1	650.0	621.8	573.7	500.2	400.6	286.2	171.0	69.2	10.6	1.4
87.5°	609.8	604.8	573.7	524.3	452.2	360.3	250.8	138.5	48.8	4.9	2.1
90°	569.5	558.9	531.3	479.0	407.0	315.8	213.4	110.9	32.5	2.8	2.8
92.5°	529.9	520.7	490.3	436.6	366.7	277.7	177.3	84.8	20.5	1.4	3.5
95°	488.9	479.0	449.4	399.9	325.7	238.8	145.5	62.2	11.3	1.4	3.5
97.5°	448.7	439.5	408.4	358.9	289.0	204.9	115.2	43.8	5.7	1.4	2.8
100°	411.2	400.6	372.4	322.9	252.2	171.0	89.0	28.3	3.5	1.4	2.8
102.5°	371.6	363.2	334.2	286.2	214.1	139.2	66.4	17.7	1.4	1.4	2.1
105°	336.3	325.7	297.5	248.0	182.3	109.5	46.6	10.6	1.4	1.4	2.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	219.0	210.6	185.8	144.1	92.6	43.1	12.7	2.1	2.1	2.1	2.1
115°	183.0	170.3	148.4	111.6	68.5	28.3	6.4	2.1	2.1	2.1	2.1
117.5°	146.3	135.7	120.1	84.8	45.2	18.4	3.5	2.1	2.1	2.1	2.1
120°	114.5	104.6	86.9	58.6	30.4	10.6	1.4	2.1	2.1	2.1	2.1
122.5°	82.0	74.2	58.6	38.2	18.4	4.9	2.1	2.1	2.8	2.8	2.1
125°	54.4	50.2	38.9	23.3	11.3	2.1	2.1	2.1	2.8	2.8	2.1
127.5°	35.3	31.8	22.6	13.4	4.9	2.1	2.1	2.8	2.8	2.8	2.1
130°	19.8	17.7	13.4	7.8	2.1	2.1	2.1	2.8	2.8	2.8	2.1
132.5°	11.3	10.6	7.1	1.4	2.1	2.1	2.1	2.8	2.8	2.8	2.8
135°	2.8	1.4	1.4	1.4	2.1	2.1	2.8	2.8	3.5	3.5	2.8
137.5°	0.7	0.7	1.4	1.4	2.1	2.1	2.8	3.5	3.5	3.5	2.8
140°	0.7	0.7	1.4	2.1	2.1	2.1	2.8	3.5	3.5	3.5	2.8
142.5°	0.7	1.4	1.4	2.1	2.1	2.8	2.8	3.5	3.5	2.8	2.8
145°	0.7	1.4	1.4	2.1	2.1	2.8	2.8	3.5	2.8	2.8	2.8
147.5°	1.4	1.4	1.4	2.1	2.1	2.8	2.8	3.5	3.5	2.8	2.8
150°	0.7	1.4	1.4	2.1	2.8	2.8	2.8	3.5	2.8	2.8	2.8
152.5°	0.7	1.4	1.4	2.1	2.8	2.8	2.8	3.5	2.8	2.8	2.8
155°	1.4	1.4	1.4	2.1	2.8	2.8	2.8	3.5	2.8	2.8	3.5
157.5°	1.4	1.4	1.4	2.1	2.8	2.8	2.8	3.5	2.8	2.8	3.5
160°	1.4	1.4	1.4	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.8
162.5°	1.4	1.4	1.4	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.8
165°	1.4	1.4	1.4	1.4	2.1	2.1	2.8	2.8	2.8	2.8	2.8
167.5°	1.4	1.4	1.4	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8
170°	1.4	1.4	1.4	2.1	2.1	2.1	2.8	3.5	3.5	3.5	3.5
172.5°	1.4	1.4	1.4	2.1	2.1	2.8	2.8	3.5	3.5	3.5	3.5
175°	1.4	1.4	1.4	2.1	2.1	2.8	2.8	3.5	3.5	3.5	3.5
177.5°	0.7	1.4	1.4	2.1	2.1	2.8	2.8	3.5	3.5	3.5	2.8
180°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1



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CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-80-88-ED1D-90

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	554.6	554.6	554.6
2.5°	527.8	517.9	515.1
5°	499.5	483.3	474.1
7.5°	471.3	449.4	438.8
10°	445.1	414.0	402.7
12.5°	414.0	378.0	360.3
15°	384.4	337.7	320.8
17.5°	351.2	298.9	279.1
20°	320.1	260.0	239.5
22.5°	284.7	221.9	199.2
25°	252.9	183.7	158.3
27.5°	217.6	144.8	122.9
30°	184.4	110.9	89.0
32.5°	152.6	81.3	61.5
35°	122.9	55.1	38.9
37.5°	94.7	33.9	19.8
40°	68.5	17.7	9.2
42.5°	45.9	8.5	4.9
45°	28.3	4.2	0.0
47.5°	16.3	0.0	0.0
50°	8.5	0.0	0.0
52.5°	3.5	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°	0.7	0.7	0.7
77.5°	0.7	1.4	2.1
80°	1.4	2.8	3.5
82.5°	2.8	3.5	3.5
85°	2.8	3.5	4.2
87.5°	3.5	4.2	4.9
90°	4.2	4.9	4.9
92.5°	4.2	5.7	5.7
95°	4.9	5.7	6.4
97.5°	5.7	6.4	6.4
100°	4.9	6.4	7.1
102.5°	4.2	6.4	6.4
105°	3.5	4.9	5.7



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	2.8	3.5	3.5
115°	2.1	2.8	3.5
117.5°	2.1	2.8	2.8
120°	2.1	2.1	2.8
122.5°	2.1	2.1	2.8
125°	2.1	2.1	2.8
127.5°	2.8	2.1	2.1
130°	2.1	2.1	2.1
132.5°	2.8	2.1	2.1
135°	2.8	2.1	2.1
137.5°	2.8	2.1	2.1
140°	2.8	2.1	2.1
142.5°	2.8	2.1	2.1
145°	2.1	2.1	2.1
147.5°	2.1	2.1	2.1
150°	2.1	2.1	1.4
152.5°	2.1	1.4	1.4
155°	2.1	1.4	0.7
157.5°	2.8	1.4	0.7
160°	2.1	1.4	0.7
162.5°	2.1	1.4	0.7
165°	2.1	1.4	0.0
167.5°	2.1	1.4	0.7
170°	2.1	1.4	0.7
172.5°	2.1	1.4	0.7
175°	2.1	0.7	0.7
177.5°	2.1	0.7	0.7
180°	2.1	2.1	2.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	296.8	288.3	260.0	213.4	149.1	83.4	31.1	5.7	1.4	2.1	2.1
110°	258.6	251.5	222.6	177.3	120.1	62.2	20.5	3.5	2.1	2.1	2.1





107.5°	2.8	4.2	4.9
110°	2.8	3.5	4.2



(END OF REPORT)