

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: P551261

Luminaire Tested: **FCC-X-2-LD4-2HI-35-UNV-80-87-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: P551261
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-80-87-ED1D-90
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3500K, AND 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

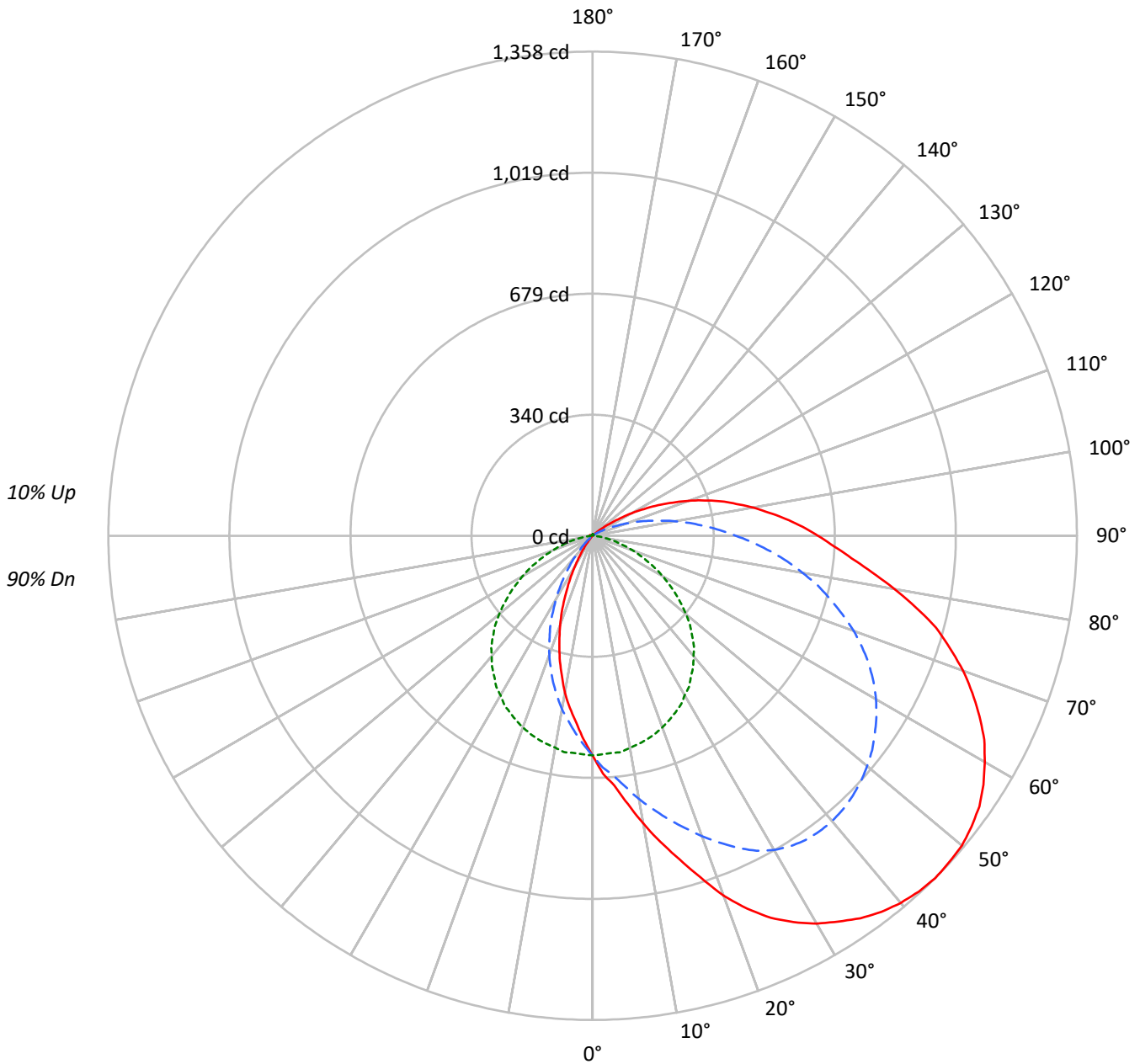
Lumens per Lamp: N/A
Luminaire Lumens: 3045.1 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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

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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°	6629	6629	6629
5°	7278	6533	5450
10°	8235	6453	4492
15°	9230	6370	3500
20°	10410	6267	2578
25°	11388	6147	1693
30°	12116	5985	954
35°	12745	5812	420
40°	13304	5598	101
45°	13783	5330	0
50°	14186	4974	0
55°	14492	4522	0
60°	14646	3999	0
65°	14707	3404	0
70°	14657	2776	0
75°	14472	2048	12
80°	13885	1251	63
85°	13421	600	86



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.9
10°-20°	176.7	5.8
20°-30°	286.1	9.4
30°-40°	367.5	12.1
40°-50°	416.0	13.7
50°-60°	431.0	14.2
60°-70°	406.4	13.3
70°-80°	340.6	11.2
80°-90°	246.9	8.1
90°-100°	162.3	5.3
100°-110°	93.7	3.1
110°-120°	41.4	1.4
120°-130°	11.2	0.4
130°-140°	2.6	0.1
140°-150°	1.7	0.1
150°-160°	1.2	0.0
160°-170°	0.7	0.0
170°-180°	0.2	0.0
0°-30°	521.7	17.1
0°-40°	889.2	29.2
0°-60°	1736.2	57.0
0°-90°	2730.1	89.7
90°-120°	297.4	9.8
90°-150°	312.8	10.3
90°-180°	315.0	10.3
0°-180°	3045.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	616	616	616	616	616	
5°	703	675	611	555	526	71
15°	939	823	591	427	356	271
25°	1182	966	548	281	176	546
35°	1310	1042	481	136	43	821
45°	1358	1031	394	31	0	1049
55°	1324	966	284	0	0	1182
65°	1197	855	170	0	0	1184
75°	997	690	72	1	1	1046
85°	730	500	12	3	5	623
90°	632	401	3	5	6	347
95°	543	313	2	6	7	426
105°	374	162	2	4	6	394
115°	203	54	2	2	4	203
125°	60	8	3	2	3	60
135°	3	2	4	3	2	6
145°	1	3	3	2	2	1
155°	2	3	3	2	1	1
165°	2	2	3	2	0	0
175°	2	3	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°	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9
2.5°	667.7	666.9	664.6	660.7	655.2	645.7	637.9	630.8	621.4	613.6	598.7
5°	703.0	699.1	696.0	692.0	679.5	670.9	656.7	641.0	626.1	611.2	581.4
7.5°	759.5	753.2	748.5	737.5	720.3	700.7	678.7	663.8	653.6	612.0	561.0
10°	819.9	814.4	805.0	785.4	764.2	736.0	704.6	669.3	637.9	603.4	543.0
12.5°	879.6	871.7	858.4	833.3	803.5	768.1	725.0	683.4	638.7	597.9	521.8
15°	939.2	930.6	916.4	885.8	846.6	800.3	747.7	695.2	642.6	590.8	499.8
17.5°	1004.3	992.6	971.4	936.8	887.4	830.1	768.1	704.6	641.0	582.2	476.3
20°	1074.2	1057.7	1034.9	988.6	930.6	863.1	788.5	714.0	640.3	572.0	449.6
22.5°	1132.2	1115.7	1090.6	1042.8	972.9	890.5	805.8	720.3	637.1	560.2	424.5
25°	1182.4	1169.1	1141.6	1086.7	1013.0	919.6	822.3	725.0	632.4	547.7	397.8
27.5°	1221.7	1209.1	1178.5	1122.0	1046.7	945.5	834.8	727.3	626.1	535.1	370.3
30°	1256.2	1243.6	1206.8	1148.7	1069.4	965.9	847.4	728.1	618.3	516.3	340.5
32.5°	1282.9	1271.1	1233.4	1171.4	1085.1	980.0	854.5	727.3	608.1	502.9	308.4
35°	1309.5	1297.8	1253.8	1187.9	1096.9	986.3	859.9	723.4	595.5	481.0	277.8
37.5°	1329.9	1316.6	1271.9	1198.9	1102.4	987.8	859.2	717.9	582.2	462.9	247.2
40°	1344.1	1329.9	1282.1	1205.2	1104.0	985.5	852.9	708.5	566.5	440.2	215.0
42.5°	1353.5	1337.8	1286.8	1214.6	1100.8	979.2	843.5	696.7	549.2	420.6	184.4
45°	1358.2	1341.7	1287.6	1206.8	1095.3	967.4	829.3	681.8	530.4	393.9	153.8
47.5°	1355.8	1337.8	1283.6	1198.1	1085.1	954.9	813.7	663.8	507.7	370.3	124.8
50°	1351.9	1333.1	1275.0	1187.1	1071.0	939.2	796.4	641.8	484.1	341.3	98.9
52.5°	1339.4	1320.5	1265.6	1171.4	1054.5	921.1	772.9	619.1	459.0	313.1	75.3
55°	1323.7	1306.4	1249.1	1157.3	1033.4	899.2	750.9	594.7	434.7	284.0	54.1
57.5°	1299.3	1283.6	1228.7	1134.6	1012.2	874.9	726.6	568.1	404.1	255.0	37.7
60°	1269.5	1253.8	1200.5	1108.7	987.8	847.4	699.9	540.6	376.6	226.0	23.5
62.5°	1238.1	1223.2	1167.5	1076.5	957.2	818.4	670.9	513.1	347.6	199.3	14.1
65°	1196.6	1182.4	1132.2	1038.1	923.5	787.0	638.7	480.2	317.8	169.5	7.8
67.5°	1152.6	1140.1	1089.1	1002.8	884.3	752.5	605.7	448.0	286.4	143.6	3.9
70°	1105.5	1089.8	1042.8	954.9	844.3	713.2	569.6	415.1	256.6	118.5	0.0
72.5°	1050.6	1038.8	993.3	910.2	798.0	671.6	532.8	379.0	223.6	94.2	0.8
75°	997.3	982.4	940.8	862.3	752.5	627.7	492.0	345.2	191.4	72.2	0.8
77.5°	928.2	923.5	884.3	808.2	709.3	585.3	447.2	304.4	160.8	51.8	0.8
80°	859.2	854.5	823.9	754.0	659.1	535.1	405.7	266.0	131.0	34.5	0.8
82.5°	790.9	784.6	755.6	697.5	608.1	492.7	362.5	227.5	103.6	21.2	0.8
85°	729.7	721.9	690.5	637.1	555.5	444.9	317.8	189.9	76.9	11.8	1.6
87.5°	677.1	671.6	637.1	582.2	502.2	400.2	278.5	153.8	54.1	5.5	2.4
90°	632.4	620.6	590.0	532.0	451.9	350.7	237.0	123.2	36.1	3.1	3.1
92.5°	588.5	578.3	544.5	484.9	407.2	308.4	196.9	94.2	22.8	1.6	3.9
95°	543.0	532.0	499.0	444.1	361.7	265.2	161.6	69.0	12.6	1.6	3.9
97.5°	498.2	488.0	453.5	398.6	320.9	227.5	127.9	48.6	6.3	1.6	3.1
100°	456.7	444.9	413.5	358.6	280.1	189.9	98.9	31.4	3.9	1.6	3.1
102.5°	412.7	403.3	371.1	317.8	237.7	154.6	73.8	19.6	1.6	1.6	2.4
105°	373.5	361.7	330.3	275.4	202.4	121.6	51.8	11.8	1.6	1.6	2.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	243.2	233.8	206.4	160.1	102.8	47.9	14.1	2.4	2.4	2.4	2.4
115°	203.2	189.1	164.8	124.0	76.1	31.4	7.1	2.4	2.4	2.4	2.4
117.5°	162.4	150.6	133.4	94.2	50.2	20.4	3.9	2.4	2.4	2.4	2.4
120°	127.1	116.1	96.5	65.1	33.7	11.8	1.6	2.4	2.4	2.4	2.4
122.5°	91.0	82.4	65.1	42.4	20.4	5.5	2.4	2.4	3.1	3.1	2.4
125°	60.4	55.7	43.2	25.9	12.6	2.4	2.4	2.4	3.1	3.1	2.4
127.5°	39.2	35.3	25.1	14.9	5.5	2.4	2.4	3.1	3.1	3.1	2.4
130°	22.0	19.6	14.9	8.6	2.4	2.4	2.4	3.1	3.1	3.1	2.4
132.5°	12.6	11.8	7.8	1.6	2.4	2.4	2.4	3.1	3.1	3.1	3.1
135°	3.1	1.6	1.6	1.6	2.4	2.4	3.1	3.1	3.9	3.9	3.1
137.5°	0.8	0.8	1.6	1.6	2.4	2.4	3.1	3.9	3.9	3.9	3.1
140°	0.8	0.8	1.6	2.4	2.4	2.4	3.1	3.9	3.9	3.9	3.1
142.5°	0.8	1.6	1.6	2.4	2.4	3.1	3.1	3.9	3.9	3.1	3.1
145°	0.8	1.6	1.6	2.4	2.4	3.1	3.1	3.9	3.1	3.1	3.1
147.5°	1.6	1.6	1.6	2.4	2.4	3.1	3.1	3.9	3.9	3.1	3.1
150°	0.8	1.6	1.6	2.4	3.1	3.1	3.1	3.9	3.1	3.1	3.1
152.5°	0.8	1.6	1.6	2.4	3.1	3.1	3.1	3.9	3.1	3.1	3.1
155°	1.6	1.6	1.6	2.4	3.1	3.1	3.1	3.9	3.1	3.1	3.9
157.5°	1.6	1.6	1.6	2.4	3.1	3.1	3.1	3.9	3.1	3.1	3.9
160°	1.6	1.6	1.6	2.4	2.4	3.1	3.1	3.1	3.1	3.1	3.1
162.5°	1.6	1.6	1.6	2.4	2.4	3.1	3.1	3.1	3.1	3.1	3.1
165°	1.6	1.6	1.6	1.6	2.4	2.4	3.1	3.1	3.1	3.1	3.1
167.5°	1.6	1.6	1.6	2.4	2.4	2.4	3.1	3.1	3.1	3.1	3.1
170°	1.6	1.6	1.6	2.4	2.4	2.4	3.1	3.9	3.9	3.9	3.9
172.5°	1.6	1.6	1.6	2.4	2.4	3.1	3.1	3.9	3.9	3.9	3.9
175°	1.6	1.6	1.6	2.4	2.4	3.1	3.1	3.9	3.9	3.9	3.9
177.5°	0.8	1.6	1.6	2.4	2.4	3.1	3.1	3.9	3.9	3.9	3.1
180°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	615.9	615.9	615.9
2.5°	586.1	575.1	572.0
5°	554.7	536.7	526.5
7.5°	523.3	499.0	487.3
10°	494.3	459.8	447.2
12.5°	459.8	419.8	400.2
15°	426.8	375.1	356.2
17.5°	390.0	331.9	309.9
20°	355.4	288.7	266.0
22.5°	316.2	246.4	221.3
25°	280.9	204.0	175.8
27.5°	241.7	160.8	136.5
30°	204.8	123.2	98.9
32.5°	169.5	90.2	68.3
35°	136.5	61.2	43.2
37.5°	105.1	37.7	22.0
40°	76.1	19.6	10.2
42.5°	51.0	9.4	5.5
45°	31.4	4.7	0.0
47.5°	18.0	0.0	0.0
50°	9.4	0.0	0.0
52.5°	3.9	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°	0.8	0.8	0.8
77.5°	0.8	1.6	2.4
80°	1.6	3.1	3.9
82.5°	3.1	3.9	3.9
85°	3.1	3.9	4.7
87.5°	3.9	4.7	5.5
90°	4.7	5.5	5.5
92.5°	4.7	6.3	6.3
95°	5.5	6.3	7.1
97.5°	6.3	7.1	7.1
100°	5.5	7.1	7.8
102.5°	4.7	7.1	7.1
105°	3.9	5.5	6.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	3.1	3.9	3.9
115°	2.4	3.1	3.9
117.5°	2.4	3.1	3.1
120°	2.4	2.4	3.1
122.5°	2.4	2.4	3.1
125°	2.4	2.4	3.1
127.5°	3.1	2.4	2.4
130°	2.4	2.4	2.4
132.5°	3.1	2.4	2.4
135°	3.1	2.4	2.4
137.5°	3.1	2.4	2.4
140°	3.1	2.4	2.4
142.5°	3.1	2.4	2.4
145°	2.4	2.4	2.4
147.5°	2.4	2.4	2.4
150°	2.4	2.4	1.6
152.5°	2.4	1.6	1.6
155°	2.4	1.6	0.8
157.5°	3.1	1.6	0.8
160°	2.4	1.6	0.8
162.5°	2.4	1.6	0.8
165°	2.4	1.6	0.0
167.5°	2.4	1.6	0.8
170°	2.4	1.6	0.8
172.5°	2.4	1.6	0.8
175°	2.4	0.8	0.8
177.5°	2.4	0.8	0.8
180°	2.4	2.4	2.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	329.5	320.1	288.7	237.0	165.6	92.6	34.5	6.3	1.6	2.4	2.4
110°	287.2	279.3	247.2	196.9	133.4	69.0	22.8	3.9	2.4	2.4	2.4





107.5°	3.1	4.7	5.5
110°	3.1	3.9	4.7



(END OF REPORT)