

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: P551264

Luminaire Tested: **FCC-X-2-LD4-2HI-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: P551264
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
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

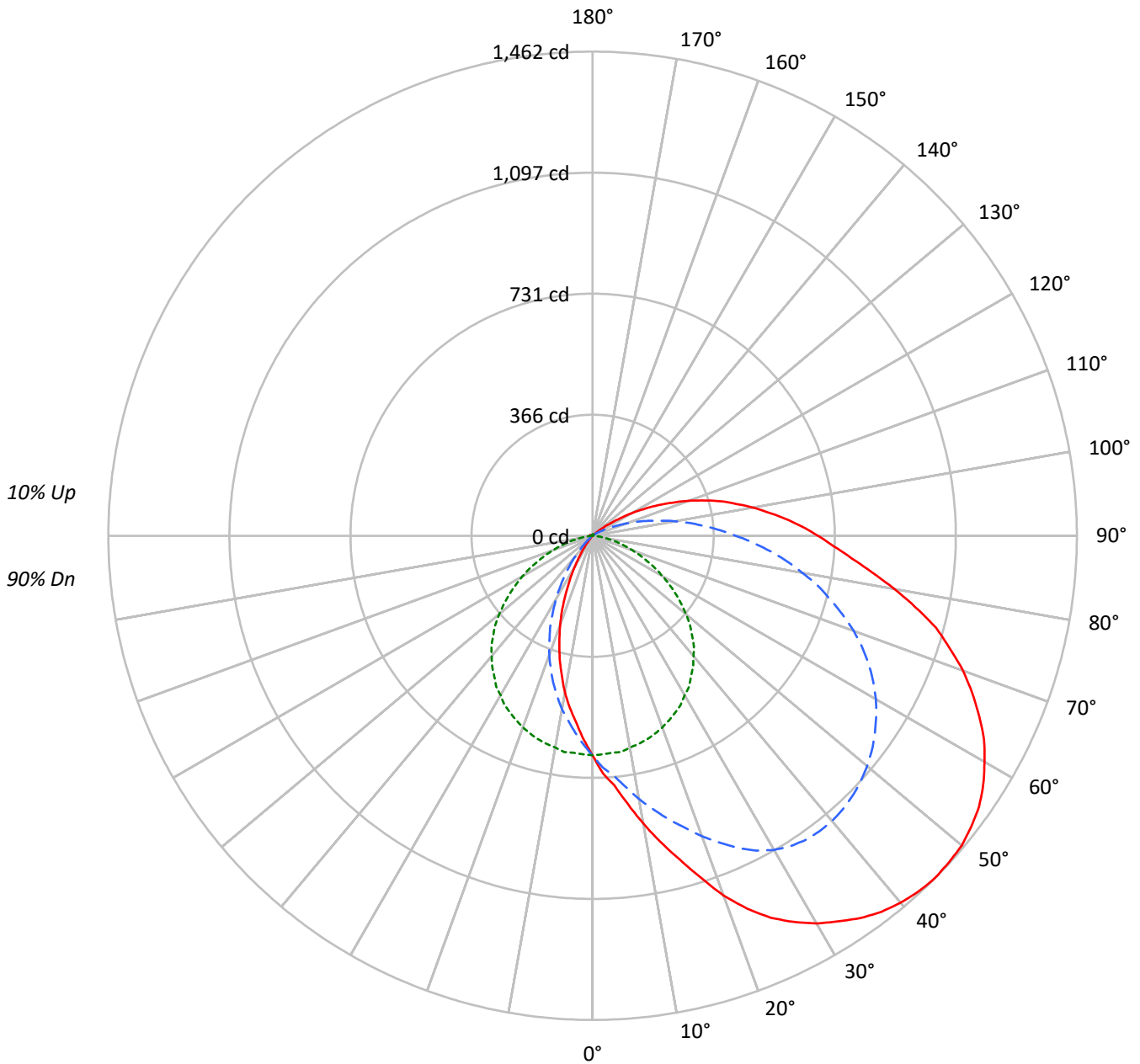
Lumens per Lamp: N/A
Luminaire Lumens: 3277.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	7135	7135	7135
5°	7832	7031	5866
10°	8863	6944	4834
15°	9933	6856	3768
20°	11203	6745	2775
25°	12256	6615	1821
30°	13039	6441	1026
35°	13716	6254	452
40°	14318	6024	109
45°	14834	5736	0
50°	15266	5353	0
55°	15596	4868	0
60°	15761	4304	0
65°	15827	3664	0
70°	15775	2987	0
75°	15573	2203	12
80°	14942	1349	68
85°	14443	646	94



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	1.9
10°-20°	190.1	5.8
20°-30°	307.9	9.4
30°-40°	395.5	12.1
40°-50°	447.7	13.7
50°-60°	463.8	14.2
60°-70°	437.4	13.3
70°-80°	366.5	11.2
80°-90°	265.7	8.1
90°-100°	174.6	5.3
100°-110°	100.9	3.1
110°-120°	44.5	1.4
120°-130°	12.0	0.4
130°-140°	2.8	0.1
140°-150°	1.8	0.1
150°-160°	1.3	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	561.5	17.1
0°-40°	957.0	29.2
0°-60°	1868.4	57.0
0°-90°	2938.1	89.7
90°-120°	320.0	9.8
90°-150°	336.6	10.3
90°-180°	339.0	10.3
0°-180°	3277.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	663	663	663	663	663	
5°	757	727	658	597	567	76
15°	1011	886	636	459	383	291
25°	1272	1040	589	302	189	588
35°	1409	1121	518	147	46	884
45°	1462	1110	424	34	0	1128
55°	1424	1040	306	0	0	1272
65°	1288	920	182	0	0	1274
75°	1073	743	78	1	1	1126
85°	785	538	13	3	5	671
90°	681	432	3	5	6	373
95°	584	337	2	6	8	458
105°	402	174	2	4	7	424
115°	219	58	2	2	4	219
125°	65	8	3	2	3	65
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°	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9
2.5°	718.6	717.7	715.2	711.0	705.1	694.9	686.5	678.9	668.8	660.3	644.3
5°	756.6	752.4	749.0	744.8	731.3	722.0	706.8	689.9	673.8	657.8	625.7
7.5°	817.4	810.6	805.6	793.7	775.2	754.1	730.4	714.4	703.4	658.6	603.8
10°	882.4	876.5	866.4	845.3	822.5	792.1	758.3	720.3	686.5	649.3	584.3
12.5°	946.6	938.1	923.8	896.8	864.7	826.7	780.2	735.5	687.3	643.4	561.5
15°	1010.8	1001.5	986.3	953.3	911.1	861.3	804.7	748.1	691.6	635.8	537.9
17.5°	1080.8	1068.2	1045.4	1008.2	955.0	893.4	826.7	758.3	689.9	626.5	512.6
20°	1156.0	1138.3	1113.8	1064.0	1001.5	928.8	848.6	768.4	689.0	615.6	483.8
22.5°	1218.5	1200.7	1173.7	1122.2	1047.1	958.4	867.2	775.2	685.7	602.9	456.8
25°	1272.5	1258.2	1228.6	1169.5	1090.1	989.6	884.9	780.2	680.6	589.4	428.1
27.5°	1314.7	1301.2	1268.3	1207.5	1126.4	1017.5	898.4	782.8	673.8	575.9	398.6
30°	1351.9	1338.4	1298.7	1236.2	1150.9	1039.5	912.0	783.6	665.4	555.6	366.5
32.5°	1380.6	1367.9	1327.4	1260.7	1167.8	1054.7	919.6	782.8	654.4	541.3	331.9
35°	1409.3	1396.6	1349.4	1278.4	1180.5	1061.4	925.5	778.5	640.9	517.6	298.9
37.5°	1431.3	1416.9	1368.8	1290.3	1186.4	1063.1	924.6	772.6	626.5	498.2	266.0
40°	1446.5	1431.3	1379.8	1297.0	1188.1	1060.6	917.9	762.5	609.7	473.7	231.4
42.5°	1456.6	1439.7	1384.8	1307.1	1184.7	1053.8	907.7	749.8	591.1	452.6	198.4
45°	1461.7	1443.9	1385.7	1298.7	1178.8	1041.2	892.5	733.8	570.8	423.9	165.5
47.5°	1459.1	1439.7	1381.4	1289.4	1167.8	1027.6	875.6	714.4	546.3	398.6	134.3
50°	1454.9	1434.6	1372.2	1277.6	1152.6	1010.8	857.1	690.7	521.0	367.3	106.4
52.5°	1441.4	1421.1	1362.0	1260.7	1134.9	991.3	831.7	666.2	494.0	336.9	81.1
55°	1424.5	1405.9	1344.3	1245.5	1112.1	967.7	808.1	640.1	467.8	305.7	58.3
57.5°	1398.3	1381.4	1322.3	1221.0	1089.3	941.5	781.9	611.3	434.9	274.4	40.5
60°	1366.2	1349.4	1291.9	1193.1	1063.1	912.0	753.2	581.8	405.3	243.2	25.3
62.5°	1332.5	1316.4	1256.5	1158.5	1030.2	880.7	722.0	552.2	374.1	214.5	15.2
65°	1287.7	1272.5	1218.5	1117.1	993.9	846.9	687.3	516.8	342.0	182.4	8.4
67.5°	1240.4	1226.9	1172.0	1079.2	951.6	809.8	651.9	482.2	308.2	154.5	4.2
70°	1189.8	1172.9	1122.2	1027.6	908.6	767.6	613.0	446.7	276.1	127.5	0.0
72.5°	1130.7	1118.0	1069.0	979.5	858.8	722.8	573.4	407.8	240.7	101.3	0.8
75°	1073.2	1057.2	1012.4	928.0	809.8	675.5	529.4	371.5	206.0	77.7	0.8
77.5°	998.9	993.9	951.6	869.7	763.3	629.9	481.3	327.6	173.1	55.7	0.8
80°	924.6	919.6	886.6	811.5	709.3	575.9	436.6	286.3	141.0	37.2	0.8
82.5°	851.2	844.4	813.2	750.7	654.4	530.3	390.1	244.9	111.5	22.8	0.8
85°	785.3	776.9	743.1	685.7	597.8	478.8	342.0	204.3	82.8	12.7	1.7
87.5°	728.7	722.8	685.7	626.5	540.4	430.6	299.8	165.5	58.3	5.9	2.5
90°	680.6	667.9	635.0	572.5	486.4	377.4	255.0	132.6	38.8	3.4	3.4
92.5°	633.3	622.3	586.0	521.8	438.2	331.9	211.9	101.3	24.5	1.7	4.2
95°	584.3	572.5	537.0	477.9	389.3	285.4	173.9	74.3	13.5	1.7	4.2
97.5°	536.2	525.2	488.1	429.0	345.4	244.9	137.6	52.4	6.8	1.7	3.4
100°	491.4	478.8	445.0	385.9	301.5	204.3	106.4	33.8	4.2	1.7	3.4
102.5°	444.2	434.0	399.4	342.0	255.9	166.3	79.4	21.1	1.7	1.7	2.5
105°	401.9	389.3	355.5	296.4	217.9	130.9	55.7	12.7	1.7	1.7	2.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	261.8	251.6	222.1	172.3	110.6	51.5	15.2	2.5	2.5	2.5	2.5
115°	218.7	203.5	177.3	133.4	81.9	33.8	7.6	2.5	2.5	2.5	2.5
117.5°	174.8	162.1	143.5	101.3	54.0	22.0	4.2	2.5	2.5	2.5	2.5
120°	136.8	125.0	103.9	70.1	36.3	12.7	1.7	2.5	2.5	2.5	2.5
122.5°	98.0	88.7	70.1	45.6	22.0	5.9	2.5	2.5	3.4	3.4	2.5
125°	65.0	60.0	46.4	27.9	13.5	2.5	2.5	2.5	3.4	3.4	2.5
127.5°	42.2	38.0	27.0	16.0	5.9	2.5	2.5	3.4	3.4	3.4	2.5
130°	23.6	21.1	16.0	9.3	2.5	2.5	2.5	3.4	3.4	3.4	2.5
132.5°	13.5	12.7	8.4	1.7	2.5	2.5	2.5	3.4	3.4	3.4	3.4
135°	3.4	1.7	1.7	1.7	2.5	2.5	3.4	3.4	4.2	4.2	3.4
137.5°	0.8	0.8	1.7	1.7	2.5	2.5	3.4	4.2	4.2	4.2	3.4
140°	0.8	0.8	1.7	2.5	2.5	2.5	3.4	4.2	4.2	4.2	3.4
142.5°	0.8	1.7	1.7	2.5	2.5	3.4	3.4	4.2	4.2	3.4	3.4
145°	0.8	1.7	1.7	2.5	2.5	3.4	3.4	4.2	3.4	3.4	3.4
147.5°	1.7	1.7	1.7	2.5	2.5	3.4	3.4	4.2	4.2	3.4	3.4
150°	0.8	1.7	1.7	2.5	3.4	3.4	3.4	4.2	3.4	3.4	3.4
152.5°	0.8	1.7	1.7	2.5	3.4	3.4	3.4	4.2	3.4	3.4	3.4
155°	1.7	1.7	1.7	2.5	3.4	3.4	3.4	4.2	3.4	3.4	4.2
157.5°	1.7	1.7	1.7	2.5	3.4	3.4	3.4	4.2	3.4	3.4	4.2
160°	1.7	1.7	1.7	2.5	2.5	3.4	3.4	3.4	3.4	3.4	3.4
162.5°	1.7	1.7	1.7	2.5	2.5	3.4	3.4	3.4	3.4	3.4	3.4
165°	1.7	1.7	1.7	1.7	2.5	2.5	3.4	3.4	3.4	3.4	3.4
167.5°	1.7	1.7	1.7	2.5	2.5	2.5	3.4	3.4	3.4	3.4	3.4
170°	1.7	1.7	1.7	2.5	2.5	2.5	3.4	4.2	4.2	4.2	4.2
172.5°	1.7	1.7	1.7	2.5	2.5	3.4	3.4	4.2	4.2	4.2	4.2
175°	1.7	1.7	1.7	2.5	2.5	3.4	3.4	4.2	4.2	4.2	4.2
177.5°	0.8	1.7	1.7	2.5	2.5	3.4	3.4	4.2	4.2	4.2	3.4
180°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5



TEST NUMBER: P551264

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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	662.9	662.9	662.9
2.5°	630.8	618.9	615.6
5°	597.0	577.6	566.6
7.5°	563.2	537.0	524.4
10°	532.0	494.8	481.3
12.5°	494.8	451.8	430.6
15°	459.4	403.6	383.4
17.5°	419.7	357.2	333.5
20°	382.5	310.7	286.3
22.5°	340.3	265.1	238.1
25°	302.3	219.5	189.1
27.5°	260.1	173.1	146.9
30°	220.4	132.6	106.4
32.5°	182.4	97.1	73.5
35°	146.9	65.9	46.4
37.5°	113.2	40.5	23.6
40°	81.9	21.1	11.0
42.5°	54.9	10.1	5.9
45°	33.8	5.1	0.0
47.5°	19.4	0.0	0.0
50°	10.1	0.0	0.0
52.5°	4.2	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	1.7	2.5
80°	1.7	3.4	4.2
82.5°	3.4	4.2	4.2
85°	3.4	4.2	5.1
87.5°	4.2	5.1	5.9
90°	5.1	5.9	5.9
92.5°	5.1	6.8	6.8
95°	5.9	6.8	7.6
97.5°	6.8	7.6	7.6
100°	5.9	7.6	8.4
102.5°	5.1	7.6	7.6
105°	4.2	5.9	6.8



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	3.4	4.2	4.2
115°	2.5	3.4	4.2
117.5°	2.5	3.4	3.4
120°	2.5	2.5	3.4
122.5°	2.5	2.5	3.4
125°	2.5	2.5	3.4
127.5°	3.4	2.5	2.5
130°	2.5	2.5	2.5
132.5°	3.4	2.5	2.5
135°	3.4	2.5	2.5
137.5°	3.4	2.5	2.5
140°	3.4	2.5	2.5
142.5°	3.4	2.5	2.5
145°	2.5	2.5	2.5
147.5°	2.5	2.5	2.5
150°	2.5	2.5	1.7
152.5°	2.5	1.7	1.7
155°	2.5	1.7	0.8
157.5°	3.4	1.7	0.8
160°	2.5	1.7	0.8
162.5°	2.5	1.7	0.8
165°	2.5	1.7	0.0
167.5°	2.5	1.7	0.8
170°	2.5	1.7	0.8
172.5°	2.5	1.7	0.8
175°	2.5	0.8	0.8
177.5°	2.5	0.8	0.8
180°	2.5	2.5	2.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	354.7	344.5	310.7	255.0	178.2	99.6	37.2	6.8	1.7	2.5	2.5
110°	309.1	300.6	266.0	211.9	143.5	74.3	24.5	4.2	2.5	2.5	2.5





107.5°	3.4	5.1	5.9
110°	3.4	4.2	5.1



(END OF REPORT)