

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: P551334

Luminaire Tested: **FCC-X-2-LD4-2HI-40-UNV-80-97-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: P551334
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-40-UNV-80-97-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 4000K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

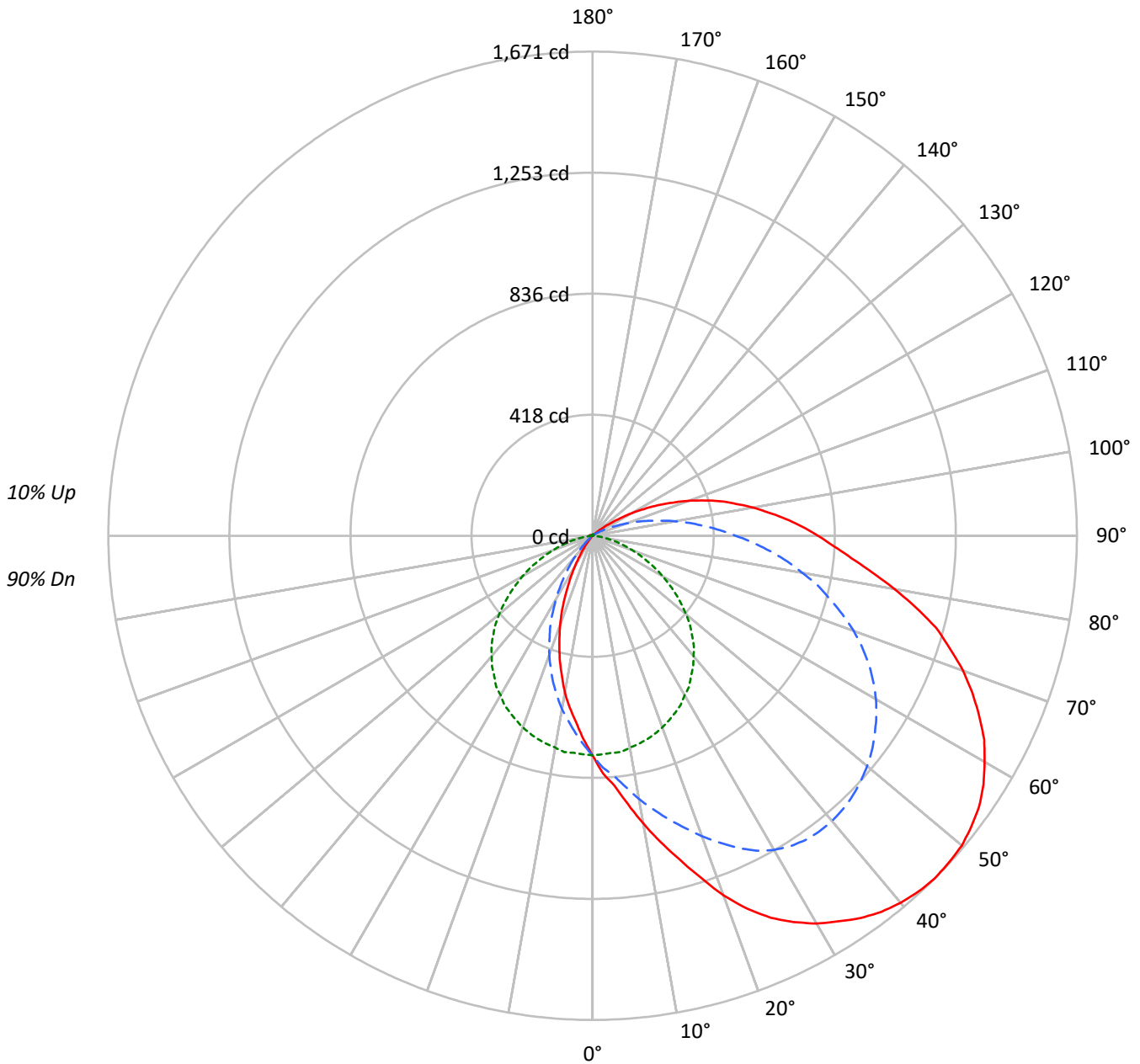
Lumens per Lamp: N/A
Luminaire Lumens: 3746.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 43.3
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P551334

CATALOG NUMBER: FCC-X-2-LD4-2HI-40-UNV-80-97-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°	8156	8156	8156
5°	8954	8036	6705
10°	10132	7938	5526
15°	11354	7837	4306
20°	12806	7710	3171
25°	14009	7561	2082
30°	14905	7362	1173
35°	15680	7149	517
40°	16367	6886	124
45°	16957	6557	0
50°	17451	6120	0
55°	17828	5564	0
60°	18018	4920	0
65°	18092	4188	0
70°	18031	3416	0
75°	17802	2518	15
80°	17082	1542	78
85°	16510	737	107



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.9
10°-20°	217.3	5.8
20°-30°	351.9	9.4
30°-40°	452.1	12.1
40°-50°	511.8	13.7
50°-60°	530.2	14.2
60°-70°	500.0	13.3
70°-80°	419.0	11.2
80°-90°	303.7	8.1
90°-100°	199.6	5.3
100°-110°	115.3	3.1
110°-120°	50.9	1.4
120°-130°	13.8	0.4
130°-140°	3.2	0.1
140°-150°	2.1	0.1
150°-160°	1.5	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	641.8	17.1
0°-40°	1093.9	29.2
0°-60°	2135.8	57.0
0°-90°	3358.6	89.7
90°-120°	365.8	9.8
90°-150°	384.8	10.3
90°-180°	387.0	10.3
0°-180°	3746.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	758	758	758	758	758	
5°	865	831	752	682	648	87
15°	1155	1013	727	525	438	333
25°	1455	1189	674	346	216	672
35°	1611	1281	592	168	53	1010
45°	1671	1269	485	39	0	1290
55°	1628	1189	349	0	0	1454
65°	1472	1052	208	0	0	1456
75°	1227	849	89	1	1	1287
85°	898	615	14	4	6	767
90°	778	494	4	6	7	427
95°	668	386	2	7	9	524
105°	460	199	2	5	8	485
115°	250	66	3	3	5	250
125°	74	9	4	3	4	74
135°	4	3	5	4	3	7
145°	1	3	4	3	3	1
155°	2	4	4	3	1	1
165°	2	3	4	3	0	1
175°	2	3	5	3	1	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
0°	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7
2.5°	821.4	820.5	817.6	812.7	806.0	794.4	784.8	776.1	764.5	754.8	736.5
5°	864.9	860.0	856.2	851.4	835.9	825.3	807.9	788.6	770.3	751.9	715.3
7.5°	934.4	926.6	920.9	907.3	886.1	862.0	834.9	816.6	804.1	752.9	690.2
10°	1008.7	1001.9	990.4	966.2	940.2	905.4	866.8	823.4	784.8	742.3	668.0
12.5°	1082.1	1072.4	1056.0	1025.1	988.4	945.0	891.9	840.7	785.7	735.5	641.9
15°	1155.4	1144.8	1127.4	1089.8	1041.5	984.6	919.9	855.2	790.5	726.8	614.9
17.5°	1235.5	1221.0	1195.0	1152.5	1091.7	1021.2	945.0	866.8	788.6	716.2	585.9
20°	1321.4	1301.2	1273.2	1216.2	1144.8	1061.8	970.1	878.4	787.6	703.7	553.1
22.5°	1392.9	1372.6	1341.7	1282.8	1196.9	1095.6	991.3	886.1	783.8	689.2	522.2
25°	1454.6	1438.2	1404.4	1336.9	1246.1	1131.3	1011.6	891.9	778.0	673.7	489.4
27.5°	1502.9	1487.5	1449.8	1380.3	1287.7	1163.1	1027.0	894.8	770.3	658.3	455.6
30°	1545.4	1529.9	1484.6	1413.1	1315.6	1188.2	1042.5	895.8	760.6	635.1	418.9
32.5°	1578.2	1563.7	1517.4	1441.1	1334.9	1205.6	1051.2	894.8	748.1	618.7	379.3
35°	1611.0	1596.5	1542.5	1461.4	1349.4	1213.3	1057.9	890.0	732.6	591.7	341.7
37.5°	1636.1	1619.7	1564.7	1474.9	1356.2	1215.3	1057.0	883.2	716.2	569.5	304.1
40°	1653.5	1636.1	1577.2	1482.6	1358.1	1212.4	1049.2	871.6	696.9	541.5	264.5
42.5°	1665.1	1645.8	1583.0	1494.2	1354.3	1204.6	1037.7	857.1	675.7	517.4	226.8
45°	1670.9	1650.6	1584.0	1484.6	1347.5	1190.2	1020.3	838.8	652.5	484.6	189.2
47.5°	1668.0	1645.8	1579.2	1473.9	1334.9	1174.7	1001.0	816.6	624.5	455.6	153.5
50°	1663.1	1640.0	1568.5	1460.4	1317.6	1155.4	979.7	789.6	595.6	419.9	121.6
52.5°	1647.7	1624.5	1557.0	1441.1	1297.3	1133.2	950.8	761.6	564.7	385.1	92.7
55°	1628.4	1607.2	1536.7	1423.8	1271.2	1106.2	923.7	731.7	534.8	349.4	66.6
57.5°	1598.5	1579.2	1511.6	1395.8	1245.2	1076.3	893.8	698.8	497.1	313.7	46.3
60°	1561.8	1542.5	1476.8	1363.9	1215.3	1042.5	861.0	665.1	463.3	278.0	29.0
62.5°	1523.2	1504.8	1436.3	1324.3	1177.6	1006.8	825.3	631.3	427.6	245.2	17.4
65°	1472.0	1454.6	1392.9	1277.0	1136.1	968.2	785.7	590.7	390.9	208.5	9.7
67.5°	1418.0	1402.5	1339.8	1233.6	1087.8	925.7	745.2	551.2	352.3	176.6	4.8
70°	1360.0	1340.7	1282.8	1174.7	1038.6	877.4	700.8	510.6	315.6	145.8	0.0
72.5°	1292.5	1278.0	1222.0	1119.7	981.7	826.3	655.4	466.2	275.1	115.8	1.0
75°	1226.8	1208.5	1157.3	1060.8	925.7	772.2	605.2	424.7	235.5	88.8	1.0
77.5°	1141.9	1136.1	1087.8	994.2	872.6	720.1	550.2	374.5	197.9	63.7	1.0
80°	1057.0	1051.2	1013.5	927.6	810.8	658.3	499.0	327.2	161.2	42.5	1.0
82.5°	973.0	965.3	929.5	858.1	748.1	606.2	445.9	279.9	127.4	26.1	1.0
85°	897.7	888.0	849.4	783.8	683.4	547.3	390.9	233.6	94.6	14.5	1.9
87.5°	833.0	826.3	783.8	716.2	617.8	492.3	342.7	189.2	66.6	6.8	2.9
90°	778.0	763.5	725.9	654.4	556.0	431.5	291.5	151.5	44.4	3.9	3.9
92.5°	723.9	711.4	669.9	596.5	501.0	379.3	242.3	115.8	28.0	1.9	4.8
95°	668.0	654.4	613.9	546.3	445.0	326.3	198.8	84.9	15.4	1.9	4.8
97.5°	612.9	600.4	557.9	490.3	394.8	279.9	157.3	59.8	7.7	1.9	3.9
100°	561.8	547.3	508.7	441.1	344.6	233.6	121.6	38.6	4.8	1.9	3.9
102.5°	507.7	496.1	456.6	390.9	292.5	190.2	90.7	24.1	1.9	1.9	2.9
105°	459.5	445.0	406.4	338.8	249.0	149.6	63.7	14.5	1.9	1.9	2.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	299.2	287.6	253.9	196.9	126.4	58.9	17.4	2.9	2.9	2.9	2.9
115°	250.0	232.6	202.7	152.5	93.6	38.6	8.7	2.9	2.9	2.9	2.9
117.5°	199.8	185.3	164.1	115.8	61.8	25.1	4.8	2.9	2.9	2.9	2.9
120°	156.4	142.9	118.7	80.1	41.5	14.5	1.9	2.9	2.9	2.9	2.9
122.5°	112.0	101.4	80.1	52.1	25.1	6.8	2.9	2.9	3.9	3.9	2.9
125°	74.3	68.5	53.1	31.9	15.4	2.9	2.9	2.9	3.9	3.9	2.9
127.5°	48.3	43.4	30.9	18.3	6.8	2.9	2.9	3.9	3.9	3.9	2.9
130°	27.0	24.1	18.3	10.6	2.9	2.9	2.9	3.9	3.9	3.9	2.9
132.5°	15.4	14.5	9.7	1.9	2.9	2.9	2.9	3.9	3.9	3.9	3.9
135°	3.9	1.9	1.9	1.9	2.9	2.9	3.9	3.9	4.8	4.8	3.9
137.5°	1.0	1.0	1.9	1.9	2.9	2.9	3.9	4.8	4.8	4.8	3.9
140°	1.0	1.0	1.9	2.9	2.9	2.9	3.9	4.8	4.8	4.8	3.9
142.5°	1.0	1.9	1.9	2.9	2.9	3.9	3.9	4.8	4.8	3.9	3.9
145°	1.0	1.9	1.9	2.9	2.9	3.9	3.9	4.8	3.9	3.9	3.9
147.5°	1.9	1.9	1.9	2.9	2.9	3.9	3.9	4.8	4.8	3.9	3.9
150°	1.0	1.9	1.9	2.9	3.9	3.9	3.9	4.8	3.9	3.9	3.9
152.5°	1.0	1.9	1.9	2.9	3.9	3.9	3.9	4.8	3.9	3.9	3.9
155°	1.9	1.9	1.9	2.9	3.9	3.9	3.9	4.8	3.9	3.9	4.8
157.5°	1.9	1.9	1.9	2.9	3.9	3.9	3.9	4.8	3.9	3.9	4.8
160°	1.9	1.9	1.9	2.9	2.9	3.9	3.9	3.9	3.9	3.9	3.9
162.5°	1.9	1.9	1.9	2.9	2.9	3.9	3.9	3.9	3.9	3.9	3.9
165°	1.9	1.9	1.9	1.9	2.9	2.9	3.9	3.9	3.9	3.9	3.9
167.5°	1.9	1.9	1.9	2.9	2.9	2.9	3.9	3.9	3.9	3.9	3.9
170°	1.9	1.9	1.9	2.9	2.9	2.9	3.9	4.8	4.8	4.8	4.8
172.5°	1.9	1.9	1.9	2.9	2.9	3.9	3.9	4.8	4.8	4.8	4.8
175°	1.9	1.9	1.9	2.9	2.9	3.9	3.9	4.8	4.8	4.8	4.8
177.5°	1.0	1.9	1.9	2.9	2.9	3.9	3.9	4.8	4.8	4.8	3.9
180°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	757.7	757.7	757.7
2.5°	721.0	707.5	703.7
5°	682.4	660.2	647.7
7.5°	643.8	613.9	599.4
10°	608.1	565.6	550.2
12.5°	565.6	516.4	492.3
15°	525.1	461.4	438.2
17.5°	479.7	408.3	381.3
20°	437.3	355.2	327.2
22.5°	389.0	303.1	272.2
25°	345.6	251.0	216.2
27.5°	297.3	197.9	168.0
30°	251.9	151.5	121.6
32.5°	208.5	111.0	84.0
35°	168.0	75.3	53.1
37.5°	129.3	46.3	27.0
40°	93.6	24.1	12.5
42.5°	62.7	11.6	6.8
45°	38.6	5.8	0.0
47.5°	22.2	0.0	0.0
50°	11.6	0.0	0.0
52.5°	4.8	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°	1.0	1.0	1.0
77.5°	1.0	1.9	2.9
80°	1.9	3.9	4.8
82.5°	3.9	4.8	4.8
85°	3.9	4.8	5.8
87.5°	4.8	5.8	6.8
90°	5.8	6.8	6.8
92.5°	5.8	7.7	7.7
95°	6.8	7.7	8.7
97.5°	7.7	8.7	8.7
100°	6.8	8.7	9.7
102.5°	5.8	8.7	8.7
105°	4.8	6.8	7.7



TEST NUMBER: P551334

CATALOG NUMBER: FCC-X-2-LD4-2HI-40-UNV-80-97-ED1D

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	3.9	4.8	4.8
115°	2.9	3.9	4.8
117.5°	2.9	3.9	3.9
120°	2.9	2.9	3.9
122.5°	2.9	2.9	3.9
125°	2.9	2.9	3.9
127.5°	3.9	2.9	2.9
130°	2.9	2.9	2.9
132.5°	3.9	2.9	2.9
135°	3.9	2.9	2.9
137.5°	3.9	2.9	2.9
140°	3.9	2.9	2.9
142.5°	3.9	2.9	2.9
145°	2.9	2.9	2.9
147.5°	2.9	2.9	2.9
150°	2.9	2.9	1.9
152.5°	2.9	1.9	1.9
155°	2.9	1.9	1.0
157.5°	3.9	1.9	1.0
160°	2.9	1.9	1.0
162.5°	2.9	1.9	1.0
165°	2.9	1.9	0.0
167.5°	2.9	1.9	1.0
170°	2.9	1.9	1.0
172.5°	2.9	1.9	1.0
175°	2.9	1.0	1.0
177.5°	2.9	1.0	1.0
180°	2.9	2.9	2.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	405.4	393.8	355.2	291.5	203.7	113.9	42.5	7.7	1.9	2.9	2.9
110°	353.3	343.6	304.1	242.3	164.1	84.9	28.0	4.8	2.9	2.9	2.9





107.5°	3.9	5.8	6.8
110°	3.9	4.8	5.8



(END OF REPORT)