

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: P551269

Luminaire Tested: **FCC-X-2-LD4-2HI-35-UNV-80-97-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: P551269
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-80-97-ED1D-90
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 3500K, AND 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

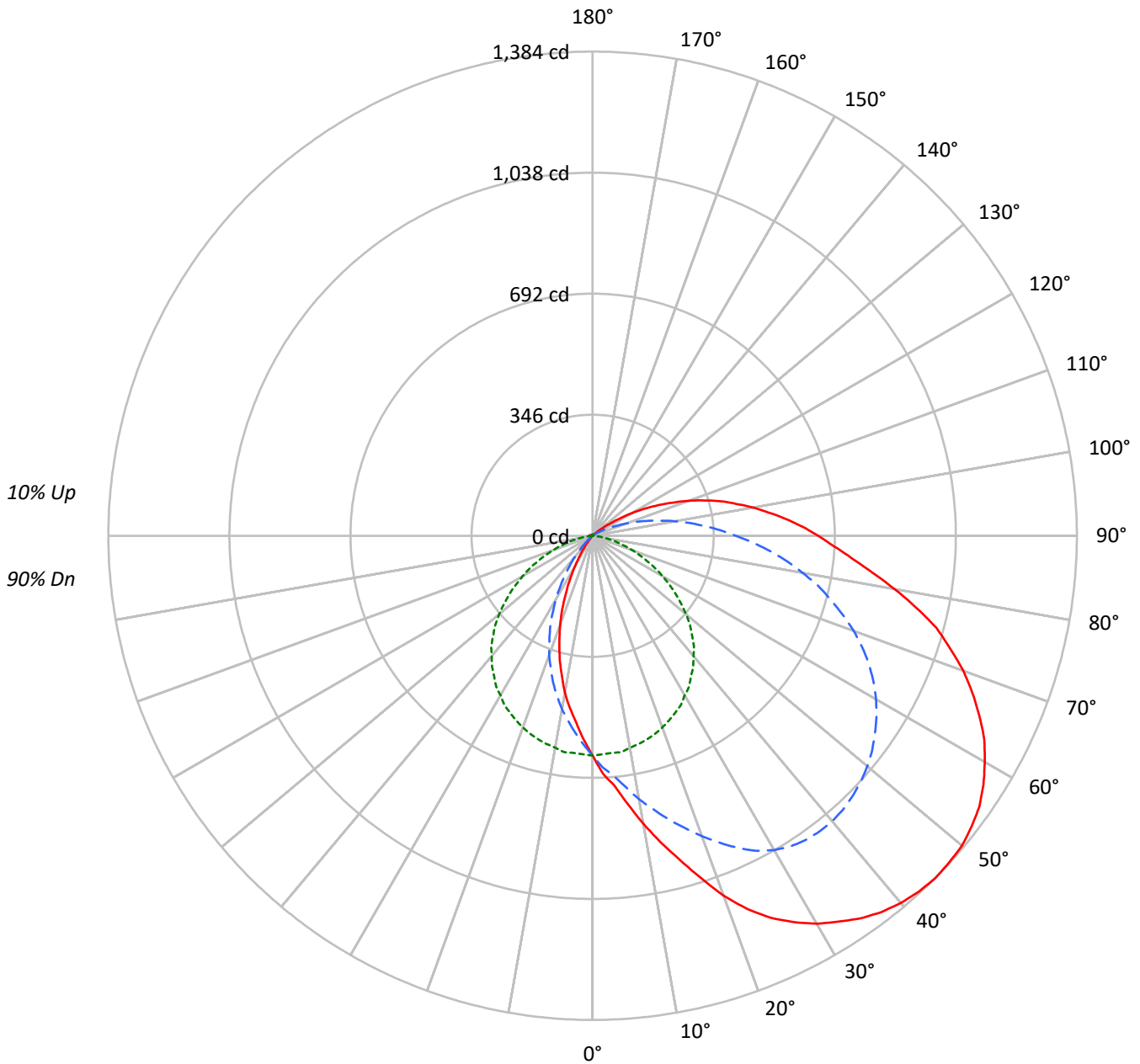
Lumens per Lamp: N/A
Luminaire Lumens: 3104.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 43.3
Input Voltage (V): NR
Input Current (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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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°	6759	6759	6759
5°	7418	6660	5556
10°	8395	6578	4579
15°	9408	6494	3568
20°	10612	6389	2627
25°	11608	6266	1726
30°	12350	6101	972
35°	12992	5924	428
40°	13562	5706	103
45°	14050	5433	0
50°	14461	5070	0
55°	14773	4610	0
60°	14930	4077	0
65°	14991	3471	0
70°	14942	2830	0
75°	14752	2087	12
80°	14154	1277	65
85°	13680	610	88



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	1.9
10°-20°	180.1	5.8
20°-30°	291.6	9.4
30°-40°	374.6	12.1
40°-50°	424.0	13.7
50°-60°	439.3	14.2
60°-70°	414.3	13.3
70°-80°	347.2	11.2
80°-90°	251.7	8.1
90°-100°	165.4	5.3
100°-110°	95.5	3.1
110°-120°	42.2	1.4
120°-130°	11.4	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°	0.3	0.0
0°-30°	531.8	17.1
0°-40°	906.4	29.2
0°-60°	1769.8	57.0
0°-90°	2783.0	89.7
90°-120°	303.1	9.8
90°-150°	318.9	10.3
90°-180°	321.0	10.3
0°-180°	3104.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	628	628	628	628	628	
5°	717	688	623	566	537	72
15°	957	839	602	435	363	276
25°	1205	985	558	286	179	557
35°	1335	1062	490	139	44	837
45°	1384	1051	402	32	0	1069
55°	1349	985	290	0	0	1205
65°	1220	872	173	0	0	1207
75°	1017	703	74	1	1	1066
85°	744	510	12	3	5	635
90°	645	409	3	5	6	353
95°	554	320	2	6	7	434
105°	381	165	2	4	6	402
115°	207	55	2	2	4	207
125°	62	8	3	2	3	62
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°	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9
2.5°	680.7	679.9	677.5	673.5	667.9	658.3	650.3	643.1	633.5	625.5	610.3
5°	716.6	712.6	709.4	705.4	692.7	683.9	669.5	653.5	638.3	623.1	592.7
7.5°	774.2	767.8	763.0	751.8	734.2	714.2	691.9	676.7	666.3	623.9	571.9
10°	835.8	830.2	820.6	800.6	779.0	750.2	718.2	682.3	650.3	615.1	553.5
12.5°	896.6	888.6	875.0	849.4	819.0	783.0	739.0	696.6	651.1	609.5	531.9
15°	957.4	948.6	934.2	903.0	863.0	815.8	762.2	708.6	655.1	602.3	509.5
17.5°	1023.8	1011.8	990.2	955.0	904.6	846.2	783.0	718.2	653.5	593.5	485.5
20°	1095.0	1078.2	1055.0	1007.8	948.6	879.8	803.8	727.8	652.7	583.1	458.3
22.5°	1154.2	1137.4	1111.8	1063.0	991.8	907.8	821.4	734.2	649.5	571.1	432.7
25°	1205.3	1191.7	1163.7	1107.8	1032.6	937.4	838.2	739.0	644.7	558.3	405.5
27.5°	1245.3	1232.5	1201.3	1143.8	1067.0	963.8	851.0	741.4	638.3	545.5	377.5
30°	1280.5	1267.7	1230.1	1170.9	1090.2	984.6	863.8	742.2	630.3	526.3	347.1
32.5°	1307.7	1295.7	1257.3	1194.1	1106.2	999.0	871.0	741.4	619.9	512.7	314.3
35°	1334.9	1322.9	1278.1	1210.9	1118.2	1005.4	876.6	737.4	607.1	490.3	283.1
37.5°	1355.7	1342.1	1296.5	1222.1	1123.8	1007.0	875.8	731.8	593.5	471.9	251.9
40°	1370.1	1355.7	1306.9	1228.5	1125.4	1004.6	869.4	722.2	577.5	448.7	219.2
42.5°	1379.7	1363.7	1311.7	1238.1	1122.2	998.2	859.8	710.2	559.9	428.7	188.0
45°	1384.5	1367.7	1312.5	1230.1	1116.6	986.2	845.4	695.1	540.7	401.5	156.8
47.5°	1382.1	1363.7	1308.5	1221.3	1106.2	973.4	829.4	676.7	517.5	377.5	127.2
50°	1378.1	1358.9	1299.7	1210.1	1091.8	957.4	811.8	654.3	493.5	347.9	100.8
52.5°	1365.3	1346.1	1290.1	1194.1	1075.0	939.0	787.8	631.1	467.9	319.1	76.8
55°	1349.3	1331.7	1273.3	1179.7	1053.4	916.6	765.4	606.3	443.1	289.5	55.2
57.5°	1324.5	1308.5	1252.5	1156.6	1031.8	891.8	740.6	579.1	411.9	259.9	38.4
60°	1294.1	1278.1	1223.7	1130.2	1007.0	863.8	713.4	551.1	383.9	230.4	24.0
62.5°	1262.1	1246.9	1190.1	1097.4	975.8	834.2	683.9	523.1	354.3	203.2	14.4
65°	1219.7	1205.3	1154.2	1058.2	941.4	802.2	651.1	489.5	323.9	172.8	8.0
67.5°	1174.9	1162.1	1110.2	1022.2	901.4	767.0	617.5	456.7	291.9	146.4	4.0
70°	1127.0	1111.0	1063.0	973.4	860.6	727.0	580.7	423.1	261.5	120.8	0.0
72.5°	1071.0	1059.0	1012.6	927.8	813.4	684.7	543.1	386.3	228.0	96.0	0.8
75°	1016.6	1001.4	959.0	879.0	767.0	639.9	501.5	351.9	195.2	73.6	0.8
77.5°	946.2	941.4	901.4	823.8	723.0	596.7	455.9	310.3	164.0	52.8	0.8
80°	875.8	871.0	839.8	768.6	671.9	545.5	413.5	271.1	133.6	35.2	0.8
82.5°	806.2	799.8	770.2	711.0	619.9	502.3	369.5	232.0	105.6	21.6	0.8
85°	743.8	735.8	703.8	649.5	566.3	453.5	323.9	193.6	78.4	12.0	1.6
87.5°	690.3	684.7	649.5	593.5	511.9	407.9	283.9	156.8	55.2	5.6	2.4
90°	644.7	632.7	601.5	542.3	460.7	357.5	241.5	125.6	36.8	3.2	3.2
92.5°	599.9	589.5	555.1	494.3	415.1	314.3	200.8	96.0	23.2	1.6	4.0
95°	553.5	542.3	508.7	452.7	368.7	270.3	164.8	70.4	12.8	1.6	4.0
97.5°	507.9	497.5	462.3	406.3	327.1	232.0	130.4	49.6	6.4	1.6	3.2
100°	465.5	453.5	421.5	365.5	285.5	193.6	100.8	32.0	4.0	1.6	3.2
102.5°	420.7	411.1	378.3	323.9	242.3	157.6	75.2	20.0	1.6	1.6	2.4
105°	380.7	368.7	336.7	280.7	206.4	124.0	52.8	12.0	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°	247.9	238.3	210.4	163.2	104.8	48.8	14.4	2.4	2.4	2.4	2.4
115°	207.2	192.8	168.0	126.4	77.6	32.0	7.2	2.4	2.4	2.4	2.4
117.5°	165.6	153.6	136.0	96.0	51.2	20.8	4.0	2.4	2.4	2.4	2.4
120°	129.6	118.4	98.4	66.4	34.4	12.0	1.6	2.4	2.4	2.4	2.4
122.5°	92.8	84.0	66.4	43.2	20.8	5.6	2.4	2.4	3.2	3.2	2.4
125°	61.6	56.8	44.0	26.4	12.8	2.4	2.4	2.4	3.2	3.2	2.4
127.5°	40.0	36.0	25.6	15.2	5.6	2.4	2.4	3.2	3.2	3.2	2.4
130°	22.4	20.0	15.2	8.8	2.4	2.4	2.4	3.2	3.2	3.2	2.4
132.5°	12.8	12.0	8.0	1.6	2.4	2.4	2.4	3.2	3.2	3.2	3.2
135°	3.2	1.6	1.6	1.6	2.4	2.4	3.2	3.2	4.0	4.0	3.2
137.5°	0.8	0.8	1.6	1.6	2.4	2.4	3.2	4.0	4.0	4.0	3.2
140°	0.8	0.8	1.6	2.4	2.4	2.4	3.2	4.0	4.0	4.0	3.2
142.5°	0.8	1.6	1.6	2.4	2.4	3.2	3.2	4.0	4.0	3.2	3.2
145°	0.8	1.6	1.6	2.4	2.4	3.2	3.2	4.0	3.2	3.2	3.2
147.5°	1.6	1.6	1.6	2.4	2.4	3.2	3.2	4.0	4.0	3.2	3.2
150°	0.8	1.6	1.6	2.4	3.2	3.2	3.2	4.0	3.2	3.2	3.2
152.5°	0.8	1.6	1.6	2.4	3.2	3.2	3.2	4.0	3.2	3.2	3.2
155°	1.6	1.6	1.6	2.4	3.2	3.2	3.2	4.0	3.2	3.2	4.0
157.5°	1.6	1.6	1.6	2.4	3.2	3.2	3.2	4.0	3.2	3.2	4.0
160°	1.6	1.6	1.6	2.4	2.4	3.2	3.2	3.2	3.2	3.2	3.2
162.5°	1.6	1.6	1.6	2.4	2.4	3.2	3.2	3.2	3.2	3.2	3.2
165°	1.6	1.6	1.6	1.6	2.4	2.4	3.2	3.2	3.2	3.2	3.2
167.5°	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2	3.2	3.2
170°	1.6	1.6	1.6	2.4	2.4	2.4	3.2	4.0	4.0	4.0	4.0
172.5°	1.6	1.6	1.6	2.4	2.4	3.2	3.2	4.0	4.0	4.0	4.0
175°	1.6	1.6	1.6	2.4	2.4	3.2	3.2	4.0	4.0	4.0	4.0
177.5°	0.8	1.6	1.6	2.4	2.4	3.2	3.2	4.0	4.0	4.0	3.2
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°	627.9	627.9	627.9
2.5°	597.5	586.3	583.1
5°	565.5	547.1	536.7
7.5°	533.5	508.7	496.7
10°	503.9	468.7	455.9
12.5°	468.7	427.9	407.9
15°	435.1	382.3	363.1
17.5°	397.5	338.3	315.9
20°	362.3	294.3	271.1
22.5°	322.3	251.1	225.6
25°	286.3	208.0	179.2
27.5°	246.3	164.0	139.2
30°	208.8	125.6	100.8
32.5°	172.8	92.0	69.6
35°	139.2	62.4	44.0
37.5°	107.2	38.4	22.4
40°	77.6	20.0	10.4
42.5°	52.0	9.6	5.6
45°	32.0	4.8	0.0
47.5°	18.4	0.0	0.0
50°	9.6	0.0	0.0
52.5°	4.0	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	3.2	4.0
82.5°	3.2	4.0	4.0
85°	3.2	4.0	4.8
87.5°	4.0	4.8	5.6
90°	4.8	5.6	5.6
92.5°	4.8	6.4	6.4
95°	5.6	6.4	7.2
97.5°	6.4	7.2	7.2
100°	5.6	7.2	8.0
102.5°	4.8	7.2	7.2
105°	4.0	5.6	6.4



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	3.2	4.0	4.0
115°	2.4	3.2	4.0
117.5°	2.4	3.2	3.2
120°	2.4	2.4	3.2
122.5°	2.4	2.4	3.2
125°	2.4	2.4	3.2
127.5°	3.2	2.4	2.4
130°	2.4	2.4	2.4
132.5°	3.2	2.4	2.4
135°	3.2	2.4	2.4
137.5°	3.2	2.4	2.4
140°	3.2	2.4	2.4
142.5°	3.2	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°	3.2	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°	335.9	326.3	294.3	241.5	168.8	94.4	35.2	6.4	1.6	2.4	2.4
110°	292.7	284.7	251.9	200.8	136.0	70.4	23.2	4.0	2.4	2.4	2.4





107.5°	3.2	4.8	5.6
110°	3.2	4.0	4.8



(END OF REPORT)