

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: P551206

Luminaire Tested: **FCC-X-2-LD4-2HI-30-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: P551206
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-30-UNV-80-97-ED1D
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 3000K, AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

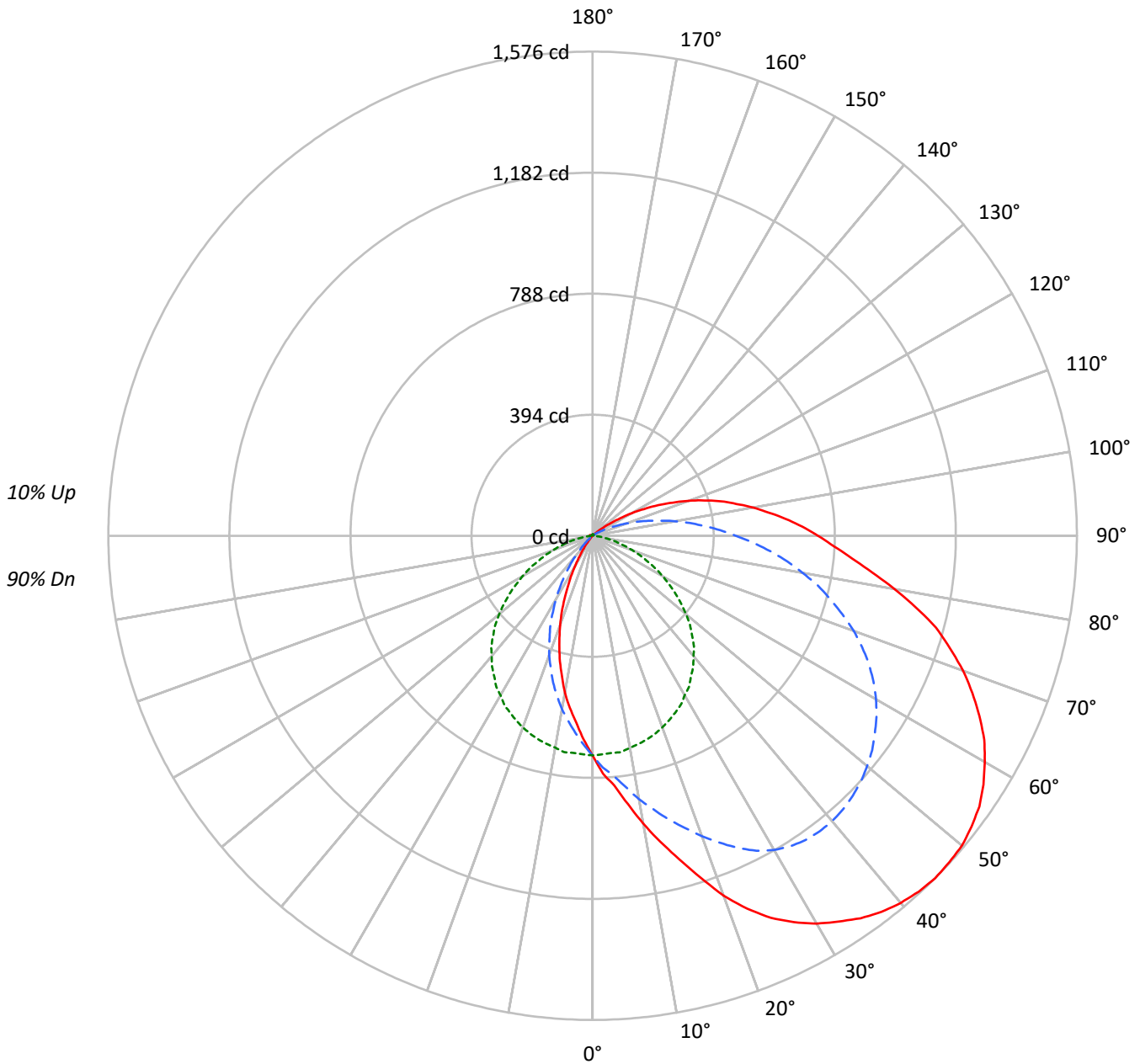
Lumens per Lamp: N/A
Luminaire Lumens: 3533.9 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

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				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°	7694	7694	7694
5°	8446	7582	6325
10°	9558	7489	5214
15°	10711	7394	4063
20°	12082	7273	2992
25°	13217	7133	1965
30°	14061	6946	1106
35°	14792	6745	488
40°	15441	6497	117
45°	15997	6185	0
50°	16464	5773	0
55°	16819	5248	0
60°	16998	4642	0
65°	17068	3951	0
70°	17012	3221	0
75°	16795	2376	13
80°	16114	1455	74
85°	15576	697	101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	1.9
10°-20°	205.0	5.8
20°-30°	332.0	9.4
30°-40°	426.5	12.1
40°-50°	482.8	13.7
50°-60°	500.2	14.2
60°-70°	471.7	13.3
70°-80°	395.3	11.2
80°-90°	286.5	8.1
90°-100°	188.3	5.3
100°-110°	108.8	3.1
110°-120°	48.0	1.4
120°-130°	13.0	0.4
130°-140°	3.0	0.1
140°-150°	1.9	0.1
150°-160°	1.4	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	605.5	17.1
0°-40°	1032.0	29.2
0°-60°	2015.0	57.0
0°-90°	3168.5	89.7
90°-120°	345.1	9.8
90°-150°	363.0	10.3
90°-180°	365.0	10.3
0°-180°	3533.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	715	715	715	715	715	
5°	816	784	709	644	611	82
15°	1090	956	686	495	413	314
25°	1372	1121	636	326	204	634
35°	1520	1209	558	158	50	953
45°	1576	1197	457	36	0	1217
55°	1536	1121	330	0	0	1372
65°	1389	993	197	0	0	1374
75°	1157	801	84	1	1	1214
85°	847	580	14	4	6	723
90°	734	466	4	6	6	402
95°	630	364	2	6	8	494
105°	434	188	2	5	7	457
115°	236	62	3	3	5	236
125°	70	9	4	3	4	70
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°	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8
2.5°	774.9	774.0	771.3	766.7	760.4	749.4	740.3	732.1	721.2	712.1	694.8
5°	815.9	811.4	807.7	803.2	788.6	778.6	762.2	744.0	726.7	709.4	674.8
7.5°	881.5	874.2	868.7	856.0	836.0	813.2	787.7	770.4	758.6	710.3	651.1
10°	951.6	945.2	934.3	911.5	887.0	854.2	817.7	776.8	740.3	700.3	630.2
12.5°	1020.8	1011.7	996.2	967.1	932.5	891.5	841.4	793.2	741.3	693.9	605.6
15°	1090.0	1080.0	1063.6	1028.1	982.6	928.8	867.8	806.8	745.8	685.7	580.1
17.5°	1165.6	1151.9	1127.4	1087.3	1029.9	963.4	891.5	817.7	744.0	675.7	552.8
20°	1246.7	1227.5	1201.1	1147.4	1080.0	1001.7	915.2	828.7	743.1	663.8	521.8
22.5°	1314.0	1294.9	1265.8	1210.2	1129.2	1033.6	935.2	836.0	739.4	650.2	492.6
25°	1372.3	1356.8	1325.0	1261.2	1175.6	1067.3	954.3	841.4	734.0	635.6	461.7
27.5°	1417.8	1403.3	1367.8	1302.2	1214.8	1097.3	968.9	844.2	726.7	621.0	429.8
30°	1457.9	1443.3	1400.5	1333.2	1241.2	1121.0	983.5	845.1	717.6	599.2	395.2
32.5°	1488.9	1475.2	1431.5	1359.6	1259.4	1137.4	991.7	844.2	705.7	583.7	357.9
35°	1519.8	1506.2	1455.2	1378.7	1273.1	1144.7	998.0	839.6	691.2	558.2	322.4
37.5°	1543.5	1528.0	1476.1	1391.4	1279.4	1146.5	997.1	833.2	675.7	537.3	286.8
40°	1559.9	1543.5	1488.0	1398.7	1281.3	1143.7	989.9	822.3	657.5	510.9	249.5
42.5°	1570.8	1552.6	1493.4	1409.7	1277.6	1136.5	978.9	808.6	637.4	488.1	214.0
45°	1576.3	1557.2	1494.3	1400.5	1271.2	1122.8	962.5	791.3	615.6	457.1	178.5
47.5°	1573.6	1552.6	1489.8	1390.5	1259.4	1108.2	944.3	770.4	589.2	429.8	144.8
50°	1569.0	1547.2	1479.8	1377.8	1243.0	1090.0	924.3	744.9	561.9	396.1	114.7
52.5°	1554.4	1532.6	1468.8	1359.6	1223.9	1069.1	897.0	718.5	532.7	363.3	87.4
55°	1536.2	1516.2	1449.7	1343.2	1199.3	1043.6	871.5	690.3	504.5	329.6	62.8
57.5°	1508.0	1489.8	1426.0	1316.8	1174.7	1015.4	843.2	659.3	469.0	296.0	43.7
60°	1473.4	1455.2	1393.3	1286.7	1146.5	983.5	812.3	627.4	437.1	262.3	27.3
62.5°	1437.0	1419.7	1355.0	1249.4	1111.0	949.8	778.6	595.6	403.4	231.3	16.4
65°	1388.7	1372.3	1314.0	1204.8	1071.8	913.4	741.3	557.3	368.8	196.7	9.1
67.5°	1337.7	1323.1	1264.0	1163.8	1026.3	873.3	703.0	520.0	332.4	166.6	4.6
70°	1283.1	1264.9	1210.2	1108.2	979.8	827.8	661.1	481.7	297.8	137.5	0.0
72.5°	1219.3	1205.7	1152.9	1056.3	926.1	779.5	618.3	439.8	259.5	109.3	0.9
75°	1157.4	1140.1	1091.8	1000.8	873.3	728.5	571.0	400.7	222.2	83.8	0.9
77.5°	1077.3	1071.8	1026.3	937.9	823.2	679.3	519.1	353.3	186.7	60.1	0.9
80°	997.1	991.7	956.2	875.1	764.9	621.0	470.8	308.7	152.1	40.1	0.9
82.5°	917.9	910.6	876.9	809.5	705.7	571.9	420.7	264.1	120.2	24.6	0.9
85°	846.9	837.8	801.4	739.4	644.7	516.3	368.8	220.4	89.2	13.7	1.8
87.5°	785.9	779.5	739.4	675.7	582.8	464.4	323.3	178.5	62.8	6.4	2.7
90°	734.0	720.3	684.8	617.4	524.5	407.1	275.0	143.0	41.9	3.6	3.6
92.5°	683.0	671.1	632.0	562.8	472.6	357.9	228.6	109.3	26.4	1.8	4.6
95°	630.2	617.4	579.2	515.4	419.8	307.8	187.6	80.1	14.6	1.8	4.6
97.5°	578.2	566.4	526.3	462.6	372.4	264.1	148.4	56.5	7.3	1.8	3.6
100°	530.0	516.3	479.9	416.2	325.1	220.4	114.7	36.4	4.6	1.8	3.6
102.5°	479.0	468.1	430.7	368.8	275.9	179.4	85.6	22.8	1.8	1.8	2.7
105°	433.5	419.8	383.4	319.6	234.9	141.1	60.1	13.7	1.8	1.8	2.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	112.5°
112.5°	282.3	271.4	239.5	185.8	119.3	55.5	16.4	2.7	2.7	2.7	2.7
115°	235.9	219.5	191.2	143.9	88.3	36.4	8.2	2.7	2.7	2.7	2.7
117.5°	188.5	174.8	154.8	109.3	58.3	23.7	4.6	2.7	2.7	2.7	2.7
120°	147.5	134.8	112.0	75.6	39.2	13.7	1.8	2.7	2.7	2.7	2.7
122.5°	105.6	95.6	75.6	49.2	23.7	6.4	2.7	2.7	3.6	3.6	2.7
125°	70.1	64.7	50.1	30.1	14.6	2.7	2.7	2.7	3.6	3.6	2.7
127.5°	45.5	41.0	29.1	17.3	6.4	2.7	2.7	3.6	3.6	3.6	2.7
130°	25.5	22.8	17.3	10.0	2.7	2.7	2.7	3.6	3.6	3.6	2.7
132.5°	14.6	13.7	9.1	1.8	2.7	2.7	2.7	3.6	3.6	3.6	3.6
135°	3.6	1.8	1.8	1.8	2.7	2.7	3.6	3.6	4.6	4.6	3.6
137.5°	0.9	0.9	1.8	1.8	2.7	2.7	3.6	4.6	4.6	4.6	3.6
140°	0.9	0.9	1.8	2.7	2.7	2.7	3.6	4.6	4.6	4.6	3.6
142.5°	0.9	1.8	1.8	2.7	2.7	3.6	3.6	4.6	4.6	3.6	3.6
145°	0.9	1.8	1.8	2.7	2.7	3.6	3.6	4.6	3.6	3.6	3.6
147.5°	1.8	1.8	1.8	2.7	2.7	3.6	3.6	4.6	4.6	3.6	3.6
150°	0.9	1.8	1.8	2.7	3.6	3.6	3.6	4.6	3.6	3.6	3.6
152.5°	0.9	1.8	1.8	2.7	3.6	3.6	3.6	4.6	3.6	3.6	3.6
155°	1.8	1.8	1.8	2.7	3.6	3.6	3.6	4.6	3.6	3.6	4.6
157.5°	1.8	1.8	1.8	2.7	3.6	3.6	3.6	4.6	3.6	3.6	4.6
160°	1.8	1.8	1.8	2.7	2.7	3.6	3.6	3.6	3.6	3.6	3.6
162.5°	1.8	1.8	1.8	2.7	2.7	3.6	3.6	3.6	3.6	3.6	3.6
165°	1.8	1.8	1.8	1.8	2.7	2.7	3.6	3.6	3.6	3.6	3.6
167.5°	1.8	1.8	1.8	2.7	2.7	2.7	3.6	3.6	3.6	3.6	3.6
170°	1.8	1.8	1.8	2.7	2.7	2.7	3.6	4.6	4.6	4.6	4.6
172.5°	1.8	1.8	1.8	2.7	2.7	3.6	3.6	4.6	4.6	4.6	4.6
175°	1.8	1.8	1.8	2.7	2.7	3.6	3.6	4.6	4.6	4.6	4.6
177.5°	0.9	1.8	1.8	2.7	2.7	3.6	3.6	4.6	4.6	4.6	3.6
180°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	714.8	714.8	714.8
2.5°	680.2	667.5	663.8
5°	643.8	622.9	611.0
7.5°	607.4	579.2	565.5
10°	573.7	533.6	519.1
12.5°	533.6	487.2	464.4
15°	495.4	435.3	413.4
17.5°	452.6	385.2	359.7
20°	412.5	335.1	308.7
22.5°	367.0	285.9	256.8
25°	326.0	236.8	204.0
27.5°	280.5	186.7	158.4
30°	237.7	143.0	114.7
32.5°	196.7	104.7	79.2
35°	158.4	71.0	50.1
37.5°	122.0	43.7	25.5
40°	88.3	22.8	11.8
42.5°	59.2	10.9	6.4
45°	36.4	5.5	0.0
47.5°	20.9	0.0	0.0
50°	10.9	0.0	0.0
52.5°	4.6	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°	0.9	0.9	0.9
77.5°	0.9	1.8	2.7
80°	1.8	3.6	4.6
82.5°	3.6	4.6	4.6
85°	3.6	4.6	5.5
87.5°	4.6	5.5	6.4
90°	5.5	6.4	6.4
92.5°	5.5	7.3	7.3
95°	6.4	7.3	8.2
97.5°	7.3	8.2	8.2
100°	6.4	8.2	9.1
102.5°	5.5	8.2	8.2
105°	4.6	6.4	7.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	3.6	4.6	4.6
115°	2.7	3.6	4.6
117.5°	2.7	3.6	3.6
120°	2.7	2.7	3.6
122.5°	2.7	2.7	3.6
125°	2.7	2.7	3.6
127.5°	3.6	2.7	2.7
130°	2.7	2.7	2.7
132.5°	3.6	2.7	2.7
135°	3.6	2.7	2.7
137.5°	3.6	2.7	2.7
140°	3.6	2.7	2.7
142.5°	3.6	2.7	2.7
145°	2.7	2.7	2.7
147.5°	2.7	2.7	2.7
150°	2.7	2.7	1.8
152.5°	2.7	1.8	1.8
155°	2.7	1.8	0.9
157.5°	3.6	1.8	0.9
160°	2.7	1.8	0.9
162.5°	2.7	1.8	0.9
165°	2.7	1.8	0.0
167.5°	2.7	1.8	0.9
170°	2.7	1.8	0.9
172.5°	2.7	1.8	0.9
175°	2.7	0.9	0.9
177.5°	2.7	0.9	0.9
180°	2.7	2.7	2.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	382.5	371.5	335.1	275.0	192.1	107.5	40.1	7.3	1.8	2.7	2.7
110°	333.3	324.2	286.8	228.6	154.8	80.1	26.4	4.6	2.7	2.7	2.7





107.5°	3.6	5.5	6.4
110°	3.6	4.6	5.5



(END OF REPORT)