

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: P555699

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-80-85-EDD**

Issue Date: 7/16/2021

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: P555699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-3LO-35-UNV-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

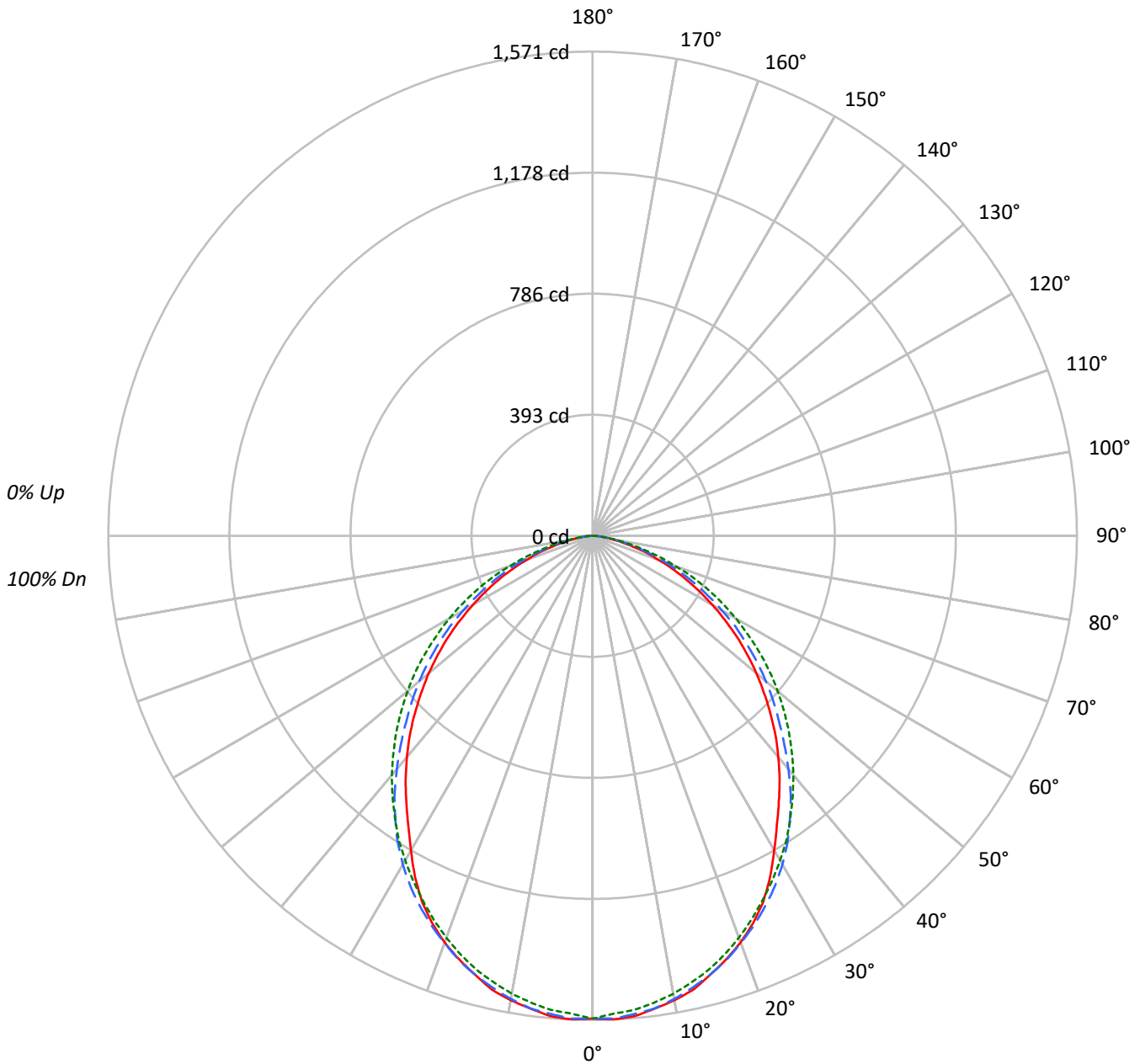
Lumens per Lamp: N/A
Luminaire Lumens: 3622.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8430	8430	8430
5°	8453	8417	8346
10°	8363	8340	8245
15°	8215	8215	8121
20°	8041	8051	7948
25°	7776	7872	7747
30°	7323	7651	7558
35°	6919	7334	7346
40°	6583	6938	7120
45°	6206	6518	6852
50°	5809	6142	6560
55°	5359	5714	6206
60°	4825	5214	5772
65°	4261	4637	5249
70°	3552	3948	4460
75°	2791	3152	3491
80°	1996	2219	2461
85°	1303	1303	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	4.1
10°-20°	414.3	11.4
20°-30°	605.5	16.7
30°-40°	687.3	19.0
40°-50°	663.4	18.3
50°-60°	547.3	15.1
60°-70°	364.5	10.1
70°-80°	163.1	4.5
80°-90°	29.2	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1167.3	32.2
0°-40°	1854.5	51.2
0°-60°	3065.3	84.6
0°-90°	3622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1565	1564	1558	1550	1545	148
15°	1474	1478	1474	1468	1458	416
25°	1310	1320	1326	1316	1305	600
35°	1053	1068	1116	1122	1118	660
45°	815	829	856	895	900	629
55°	571	581	609	643	661	510
65°	335	344	364	390	412	332
75°	134	141	152	159	168	147
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.4	1566.4	1566.4	1566.4	1566.4
2.5°	1570.6	1571.2	1567.6	1558.0	1552.0
5°	1564.6	1564.0	1558.0	1549.6	1544.8
7.5°	1547.2	1548.4	1546.6	1534.5	1527.9
10°	1530.3	1530.9	1526.1	1516.5	1508.7
12.5°	1508.7	1508.0	1501.4	1496.6	1484.0
15°	1474.3	1478.0	1474.3	1467.7	1457.5
17.5°	1441.3	1441.3	1443.7	1432.2	1424.4
20°	1403.9	1405.7	1405.7	1396.7	1387.7
22.5°	1360.6	1366.0	1367.8	1358.2	1347.4
25°	1309.5	1319.7	1325.7	1316.1	1304.6
27.5°	1247.5	1263.1	1281.2	1274.0	1261.3
30°	1178.3	1201.1	1231.2	1225.2	1216.2
32.5°	1112.7	1135.6	1177.1	1174.7	1169.9
35°	1053.1	1067.5	1116.3	1122.3	1118.1
37.5°	996.5	1009.8	1055.5	1069.4	1065.7
40°	937.0	951.4	987.5	1012.2	1013.4
42.5°	878.0	891.8	921.3	956.8	956.8
45°	815.4	829.2	856.3	895.4	900.3
47.5°	754.0	768.5	794.9	834.1	841.9
50°	693.8	707.1	733.6	771.5	783.5
52.5°	631.3	645.7	671.6	706.5	723.9
55°	571.1	580.7	609.0	642.7	661.4
57.5°	508.5	517.5	549.4	578.3	597.6
60°	448.3	459.8	484.4	513.9	536.2
62.5°	390.6	402.6	423.6	449.5	474.8
65°	334.6	343.6	364.1	390.0	412.2
67.5°	280.4	288.3	308.7	326.8	350.2
70°	225.7	235.9	250.9	268.4	283.4
72.5°	181.7	185.9	198.6	211.2	226.9
75°	134.2	141.4	151.6	158.9	167.9
77.5°	96.3	100.5	106.5	112.5	121.0
80°	64.4	66.2	71.6	72.8	79.4
82.5°	39.1	40.3	41.5	42.1	44.5
85°	21.1	21.1	21.1	19.9	19.9
87.5°	12.0	12.0	10.2	8.4	6.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







(END OF REPORT)