

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: P555723

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-81-94-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: P555723
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-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

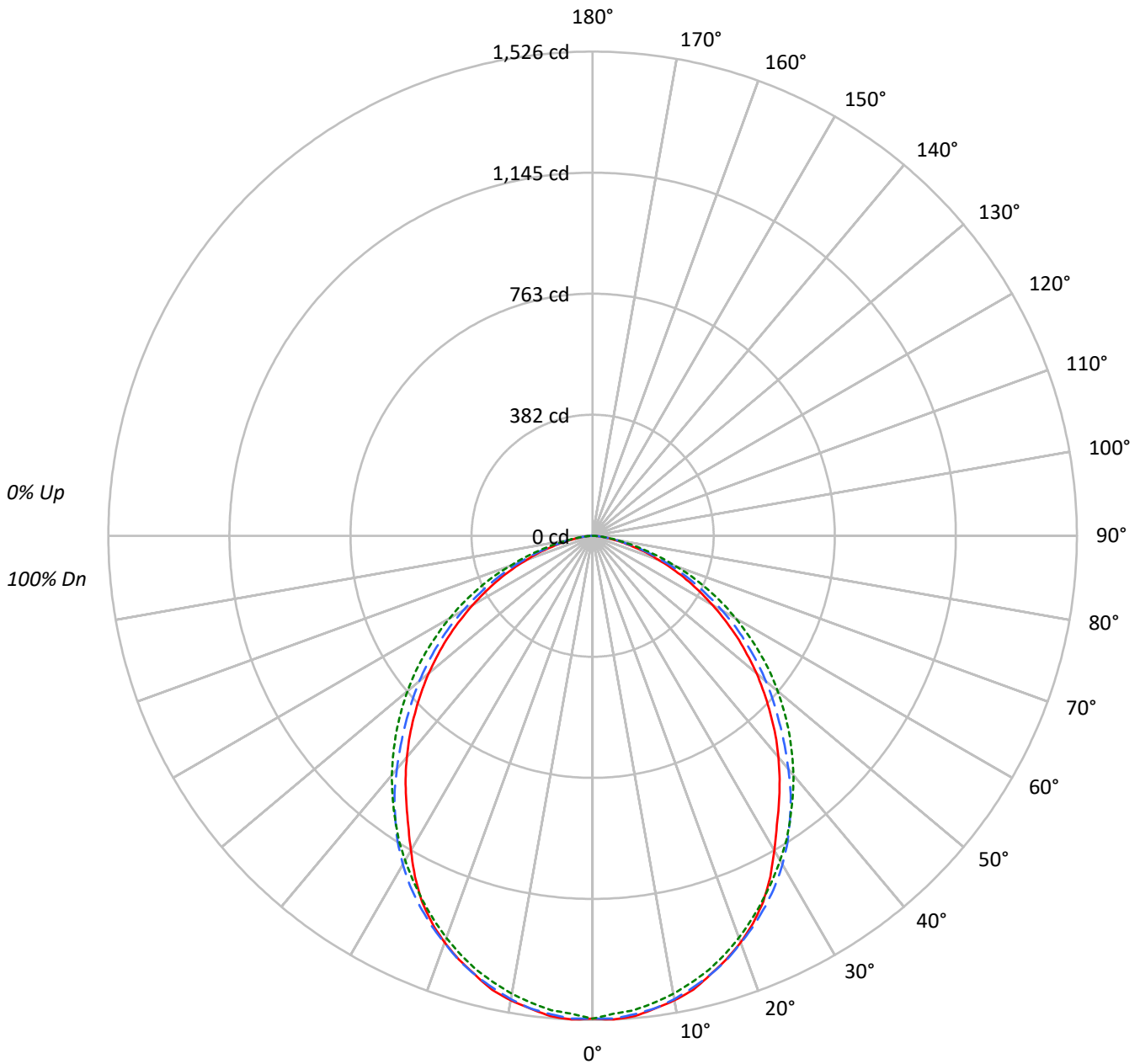
Lumens per Lamp: N/A
Luminaire Lumens: 3519.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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	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°	8191	8191	8191
5°	8212	8178	8108
10°	8125	8103	8010
15°	7981	7981	7890
20°	7812	7822	7722
25°	7555	7649	7527
30°	7114	7434	7343
35°	6723	7125	7137
40°	6395	6740	6917
45°	6030	6333	6658
50°	5644	5967	6373
55°	5206	5552	6029
60°	4689	5067	5607
65°	4140	4504	5100
70°	3449	3836	4334
75°	2712	3063	3392
80°	1940	2157	2393
85°	1266	1266	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	4.1
10°-20°	402.5	11.4
20°-30°	588.2	16.7
30°-40°	667.7	19.0
40°-50°	644.6	18.3
50°-60°	531.7	15.1
60°-70°	354.1	10.1
70°-80°	158.4	4.5
80°-90°	28.4	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°	1134.1	32.2
0°-40°	1801.8	51.2
0°-60°	2978.1	84.6
0°-90°	3519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1522	1522	1522	1522	1522	
5°	1520	1520	1514	1506	1501	144
15°	1432	1436	1432	1426	1416	404
25°	1272	1282	1288	1279	1268	583
35°	1023	1037	1084	1090	1086	641
45°	792	806	832	870	875	611
55°	555	564	592	624	642	495
65°	325	334	354	379	400	322
75°	130	137	147	154	163	143
85°	20	20	20	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1521.9	1521.9	1521.9	1521.9	1521.9
2.5°	1526.0	1526.6	1523.0	1513.7	1507.8
5°	1520.1	1519.5	1513.7	1505.5	1500.8
7.5°	1503.2	1504.3	1502.6	1490.9	1484.5
10°	1486.8	1487.4	1482.7	1473.3	1465.7
12.5°	1465.7	1465.2	1458.7	1454.1	1441.8
15°	1432.4	1435.9	1432.4	1426.0	1416.1
17.5°	1400.3	1400.3	1402.6	1391.5	1383.9
20°	1364.0	1365.8	1365.8	1357.0	1348.2
22.5°	1321.9	1327.2	1328.9	1319.6	1309.1
25°	1272.2	1282.2	1288.0	1278.7	1267.5
27.5°	1212.0	1227.2	1244.7	1237.7	1225.5
30°	1144.8	1167.0	1196.2	1190.4	1181.6
32.5°	1081.0	1103.3	1143.6	1141.3	1136.6
35°	1023.2	1037.2	1084.5	1090.4	1086.3
37.5°	968.2	981.1	1025.5	1038.9	1035.4
40°	910.3	924.4	959.4	983.4	984.6
42.5°	853.0	866.5	895.1	929.6	929.6
45°	792.2	805.7	832.0	870.0	874.7
47.5°	732.6	746.6	772.3	810.3	817.9
50°	674.1	687.0	712.7	749.5	761.2
52.5°	613.3	627.3	652.5	686.4	703.3
55°	554.8	564.2	591.7	624.4	642.5
57.5°	494.0	502.8	533.8	561.9	580.6
60°	435.6	446.7	470.7	499.3	520.9
62.5°	379.4	391.1	411.6	436.7	461.3
65°	325.1	333.8	353.7	378.9	400.5
67.5°	272.5	280.1	299.9	317.5	340.3
70°	219.2	229.2	243.8	260.8	275.4
72.5°	176.6	180.7	192.9	205.2	220.4
75°	130.4	137.4	147.3	154.4	163.1
77.5°	93.5	97.6	103.5	109.3	117.5
80°	62.6	64.3	69.6	70.7	77.2
82.5°	38.0	39.2	40.3	40.9	43.3
85°	20.5	20.5	20.5	19.3	19.3
87.5°	11.7	11.7	9.9	8.2	5.8
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)