

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: P555026

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-82-85-EDD-90**

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: P555026
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-LD4-2LO-40-UNV-82-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

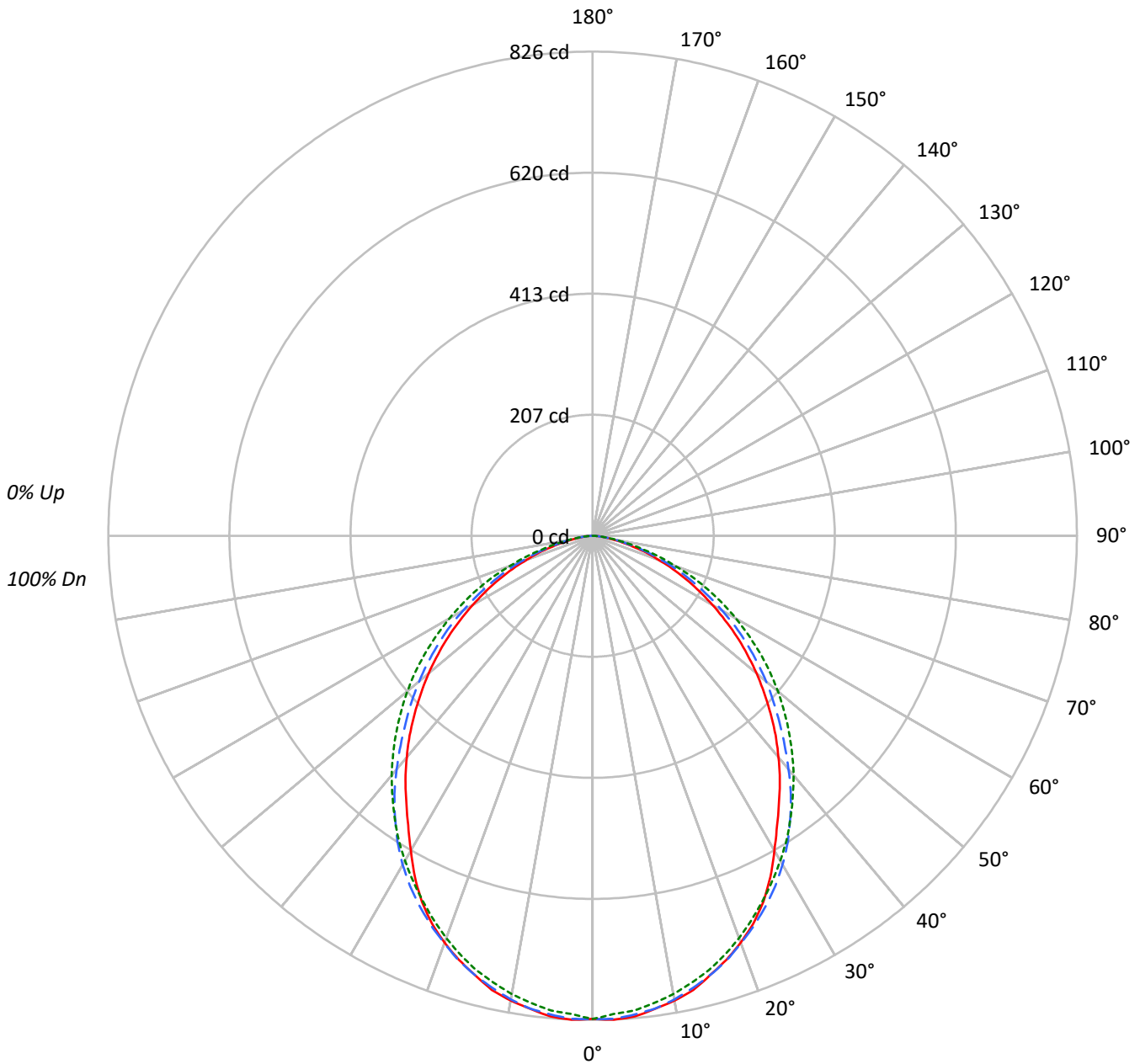
Lumens per Lamp: N/A
Luminaire Lumens: 1906.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	4436	4436	4436
5°	4448	4430	4392
10°	4401	4389	4339
15°	4323	4323	4274
20°	4231	4237	4182
25°	4092	4143	4077
30°	3853	4026	3977
35°	3641	3859	3866
40°	3464	3651	3747
45°	3266	3430	3605
50°	3057	3232	3452
55°	2820	3007	3265
60°	2539	2744	3038
65°	2243	2440	2762
70°	1869	2079	2348
75°	1468	1659	1838
80°	1051	1168	1296
85°	685	685	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	4.1
10°-20°	218.0	11.4
20°-30°	318.6	16.7
30°-40°	361.7	19.0
40°-50°	349.1	18.3
50°-60°	288.0	15.1
60°-70°	191.8	10.1
70°-80°	85.8	4.5
80°-90°	15.4	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°	614.2	32.2
0°-40°	975.9	51.2
0°-60°	1613.0	84.6
0°-90°	1906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	823	823	820	815	813	78
15°	776	778	776	772	767	219
25°	689	694	698	693	686	316
35°	554	562	587	591	588	347
45°	429	436	451	471	474	331
55°	300	306	320	338	348	268
65°	176	181	192	205	217	175
75°	71	74	80	84	88	77
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.3	824.3	824.3	824.3	824.3
2.5°	826.5	826.8	824.9	819.9	816.7
5°	823.3	823.0	819.9	815.4	812.9
7.5°	814.2	814.8	813.8	807.5	804.0
10°	805.3	805.6	803.1	798.0	793.9
12.5°	793.9	793.6	790.1	787.6	780.9
15°	775.8	777.7	775.8	772.4	767.0
17.5°	758.4	758.4	759.7	753.7	749.6
20°	738.8	739.7	739.7	735.0	730.2
22.5°	716.0	718.8	719.8	714.7	709.0
25°	689.1	694.5	697.6	692.6	686.5
27.5°	656.5	664.7	674.2	670.4	663.7
30°	620.0	632.1	647.9	644.7	640.0
32.5°	585.5	597.6	619.4	618.1	615.6
35°	554.2	561.8	587.4	590.6	588.4
37.5°	524.4	531.4	555.4	562.7	560.8
40°	493.1	500.7	519.7	532.6	533.3
42.5°	462.0	469.3	484.8	503.5	503.5
45°	429.1	436.4	450.6	471.2	473.7
47.5°	396.8	404.4	418.3	438.9	443.0
50°	365.1	372.1	386.0	406.0	412.3
52.5°	332.2	339.8	353.4	371.8	381.0
55°	300.5	305.6	320.5	338.2	348.0
57.5°	267.6	272.3	289.1	304.3	314.5
60°	235.9	241.9	254.9	270.4	282.2
62.5°	205.5	211.9	222.9	236.6	249.9
65°	176.1	180.8	191.6	205.2	216.9
67.5°	147.6	151.7	162.5	172.0	184.3
70°	118.8	124.1	132.1	141.2	149.2
72.5°	95.6	97.9	104.5	111.2	119.4
75°	70.6	74.4	79.8	83.6	88.4
77.5°	50.7	52.9	56.1	59.2	63.7
80°	33.9	34.8	37.7	38.3	41.8
82.5°	20.6	21.2	21.9	22.2	23.4
85°	11.1	11.1	11.1	10.5	10.5
87.5°	6.3	6.3	5.4	4.4	3.2
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)