

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: P554952

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-81-88-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: P554952
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-35-UNV-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

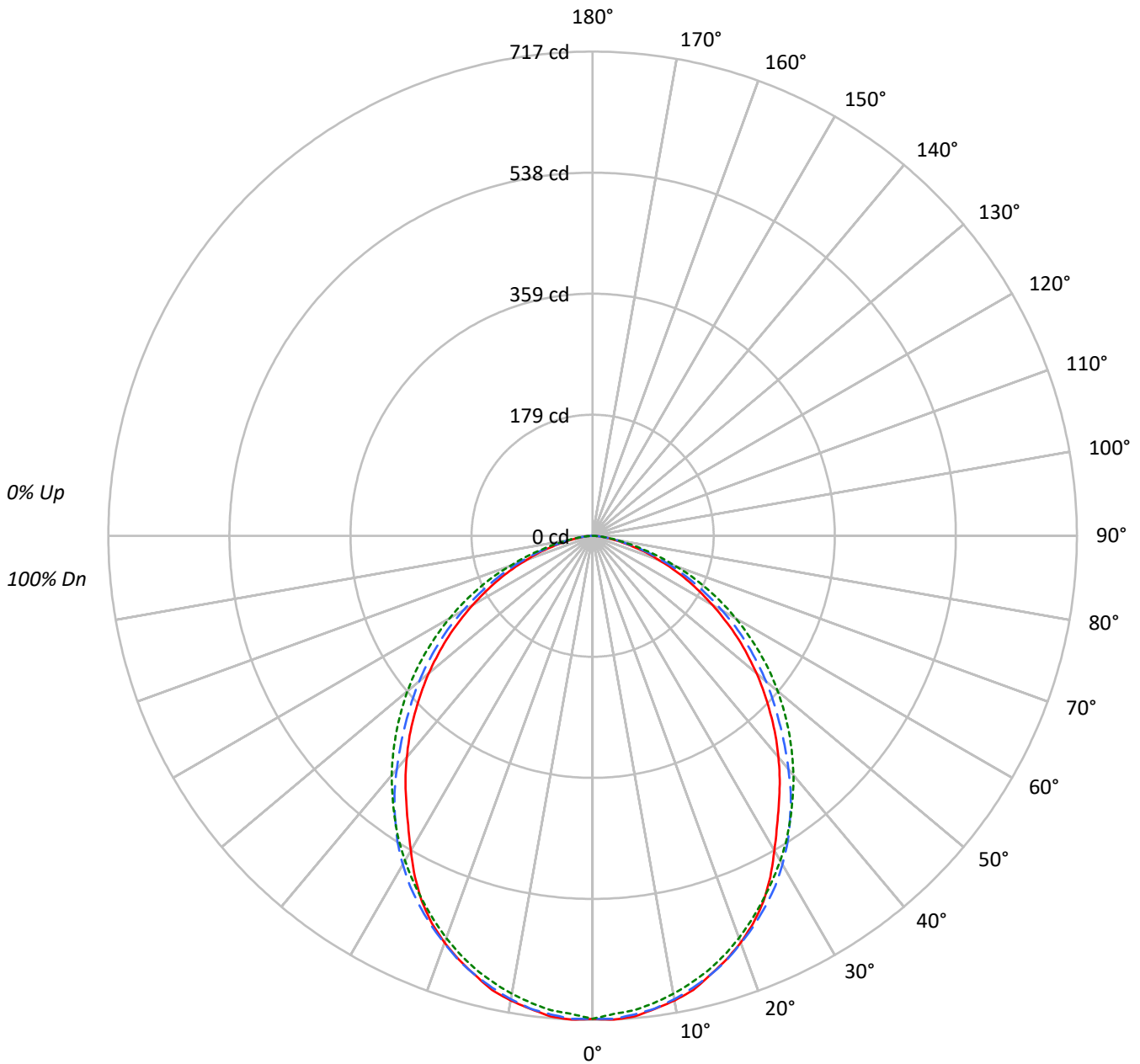
Lumens per Lamp: N/A
Luminaire Lumens: 1654.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3850	3850	3850
5°	3860	3844	3811
10°	3819	3809	3765
15°	3752	3752	3709
20°	3672	3676	3629
25°	3551	3595	3538
30°	3344	3494	3452
35°	3160	3349	3355
40°	3006	3169	3251
45°	2834	2976	3129
50°	2653	2805	2996
55°	2447	2609	2834
60°	2203	2381	2635
65°	1946	2118	2397
70°	1622	1803	2036
75°	1275	1441	1595
80°	911	1013	1125
85°	593	593	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	4.1
10°-20°	189.2	11.4
20°-30°	276.5	16.7
30°-40°	313.8	19.0
40°-50°	303.0	18.3
50°-60°	249.9	15.1
60°-70°	166.4	10.1
70°-80°	74.5	4.5
80°-90°	13.3	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°	533.0	32.2
0°-40°	846.9	51.2
0°-60°	1399.8	84.6
0°-90°	1654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	714	714	712	708	705	68
15°	673	675	673	670	666	190
25°	598	603	605	601	596	274
35°	481	488	510	512	511	301
45°	372	379	391	409	411	287
55°	261	265	278	294	302	233
65°	153	157	166	178	188	152
75°	61	65	69	72	77	67
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	715.3	715.3	715.3	715.3	715.3
2.5°	717.2	717.5	715.9	711.5	708.7
5°	714.5	714.2	711.5	707.6	705.4
7.5°	706.5	707.1	706.2	700.7	697.7
10°	698.8	699.1	696.9	692.5	688.9
12.5°	688.9	688.7	685.6	683.4	677.7
15°	673.3	674.9	673.3	670.2	665.6
17.5°	658.2	658.2	659.3	654.0	650.5
20°	641.1	641.9	641.9	637.8	633.7
22.5°	621.3	623.8	624.6	620.2	615.3
25°	598.0	602.6	605.4	601.0	595.8
27.5°	569.7	576.8	585.1	581.8	576.0
30°	538.1	548.5	562.2	559.5	555.4
32.5°	508.1	518.6	537.5	536.4	534.2
35°	480.9	487.5	509.8	512.5	510.6
37.5°	455.1	461.1	482.0	488.3	486.7
40°	427.9	434.5	451.0	462.2	462.8
42.5°	400.9	407.3	420.7	436.9	436.9
45°	372.4	378.7	391.0	408.9	411.1
47.5°	344.3	350.9	363.0	380.9	384.4
50°	316.8	322.9	335.0	352.3	357.8
52.5°	288.3	294.9	306.7	322.6	330.6
55°	260.8	265.2	278.1	293.5	302.0
57.5°	232.2	236.3	250.9	264.1	272.9
60°	204.7	209.9	221.2	234.7	244.8
62.5°	178.3	183.8	193.5	205.3	216.8
65°	152.8	156.9	166.3	178.1	188.2
67.5°	128.1	131.6	141.0	149.2	159.9
70°	103.1	107.7	114.6	122.6	129.4
72.5°	83.0	84.9	90.7	96.5	103.6
75°	61.3	64.6	69.3	72.5	76.7
77.5°	44.0	45.9	48.6	51.4	55.2
80°	29.4	30.2	32.7	33.3	36.3
82.5°	17.9	18.4	19.0	19.2	20.3
85°	9.6	9.6	9.6	9.1	9.1
87.5°	5.5	5.5	4.7	3.8	2.7
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)