

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: P554603

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-93-94-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: P554603
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-LD4-1STD-50-UNV-93-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

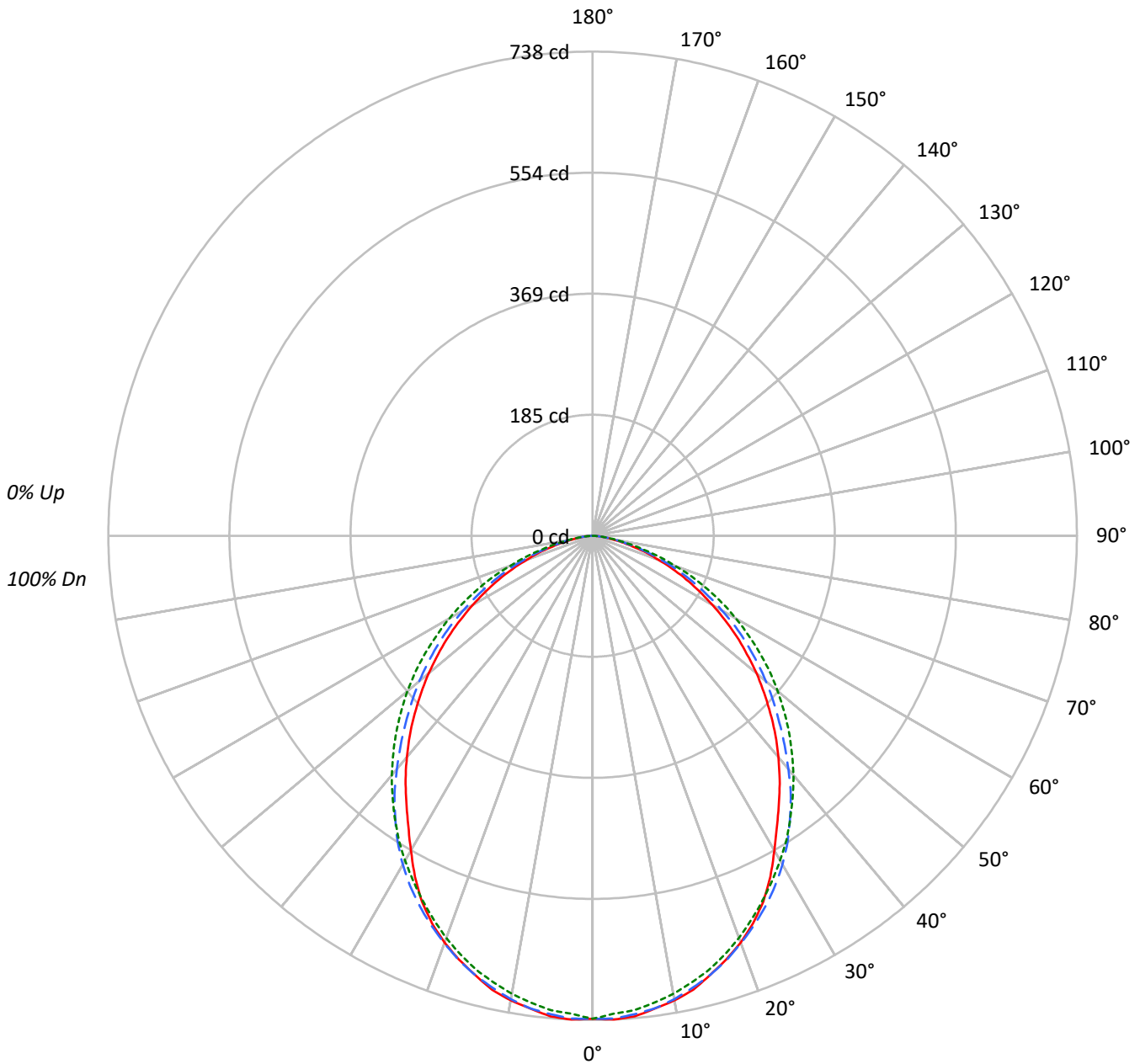
Lumens per Lamp: N/A
Luminaire Lumens: 1702.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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

TEST NUMBER: P554603

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-93-94-EDD

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°	3962	3962	3962
5°	3972	3955	3922
10°	3930	3919	3874
15°	3860	3860	3816
20°	3778	3783	3735
25°	3654	3700	3641
30°	3441	3596	3552
35°	3252	3447	3452
40°	3093	3260	3346
45°	2917	3063	3220
50°	2730	2886	3083
55°	2518	2685	2916
60°	2268	2450	2713
65°	2002	2179	2467
70°	1668	1855	2096
75°	1312	1483	1641
80°	939	1044	1156
85°	611	611	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	4.1
10°-20°	194.7	11.4
20°-30°	284.5	16.7
30°-40°	323.0	19.0
40°-50°	311.8	18.3
50°-60°	257.2	15.1
60°-70°	171.3	10.1
70°-80°	76.6	4.5
80°-90°	13.7	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°	548.5	32.2
0°-40°	871.5	51.2
0°-60°	1440.4	84.6
0°-90°	1702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	735	735	732	728	726	70
15°	693	694	693	690	685	195
25°	615	620	623	618	613	282
35°	495	502	525	527	525	310
45°	383	390	402	421	423	296
55°	268	273	286	302	311	240
65°	157	162	171	183	194	156
75°	63	66	71	75	79	69
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°	736.1	736.1	736.1	736.1	736.1
2.5°	738.1	738.3	736.6	732.1	729.3
5°	735.2	734.9	732.1	728.2	725.9
7.5°	727.0	727.6	726.7	721.1	718.0
10°	719.1	719.4	717.1	712.6	708.9
12.5°	708.9	708.6	705.5	703.3	697.3
15°	692.8	694.5	692.8	689.7	684.9
17.5°	677.3	677.3	678.4	673.0	669.3
20°	659.7	660.6	660.6	656.3	652.1
22.5°	639.4	641.9	642.8	638.2	633.1
25°	615.3	620.1	623.0	618.4	613.1
27.5°	586.2	593.6	602.0	598.6	592.7
30°	553.7	564.4	578.6	575.7	571.5
32.5°	522.9	533.6	553.1	552.0	549.7
35°	494.9	501.6	524.6	527.4	525.4
37.5°	468.3	474.5	496.0	502.5	500.8
40°	440.3	447.1	464.0	475.6	476.2
42.5°	412.6	419.1	432.9	449.6	449.6
45°	383.2	389.7	402.4	420.8	423.0
47.5°	354.3	361.1	373.5	391.9	395.6
50°	326.0	332.3	344.7	362.5	368.2
52.5°	296.6	303.4	315.6	332.0	340.2
55°	268.4	272.9	286.2	302.0	310.8
57.5°	238.9	243.2	258.2	271.7	280.8
60°	210.7	216.0	227.6	241.5	252.0
62.5°	183.5	189.2	199.1	211.2	223.1
65°	157.2	161.5	171.1	183.2	193.7
67.5°	131.8	135.5	145.1	153.5	164.6
70°	106.0	110.8	117.9	126.1	133.2
72.5°	85.4	87.4	93.3	99.3	106.6
75°	63.1	66.5	71.3	74.7	78.9
77.5°	45.2	47.2	50.1	52.9	56.8
80°	30.3	31.1	33.7	34.2	37.3
82.5°	18.4	18.9	19.5	19.8	20.9
85°	9.9	9.9	9.9	9.3	9.3
87.5°	5.7	5.7	4.8	4.0	2.8
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)