

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: P554607

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-93-97-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: P554607
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-93-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

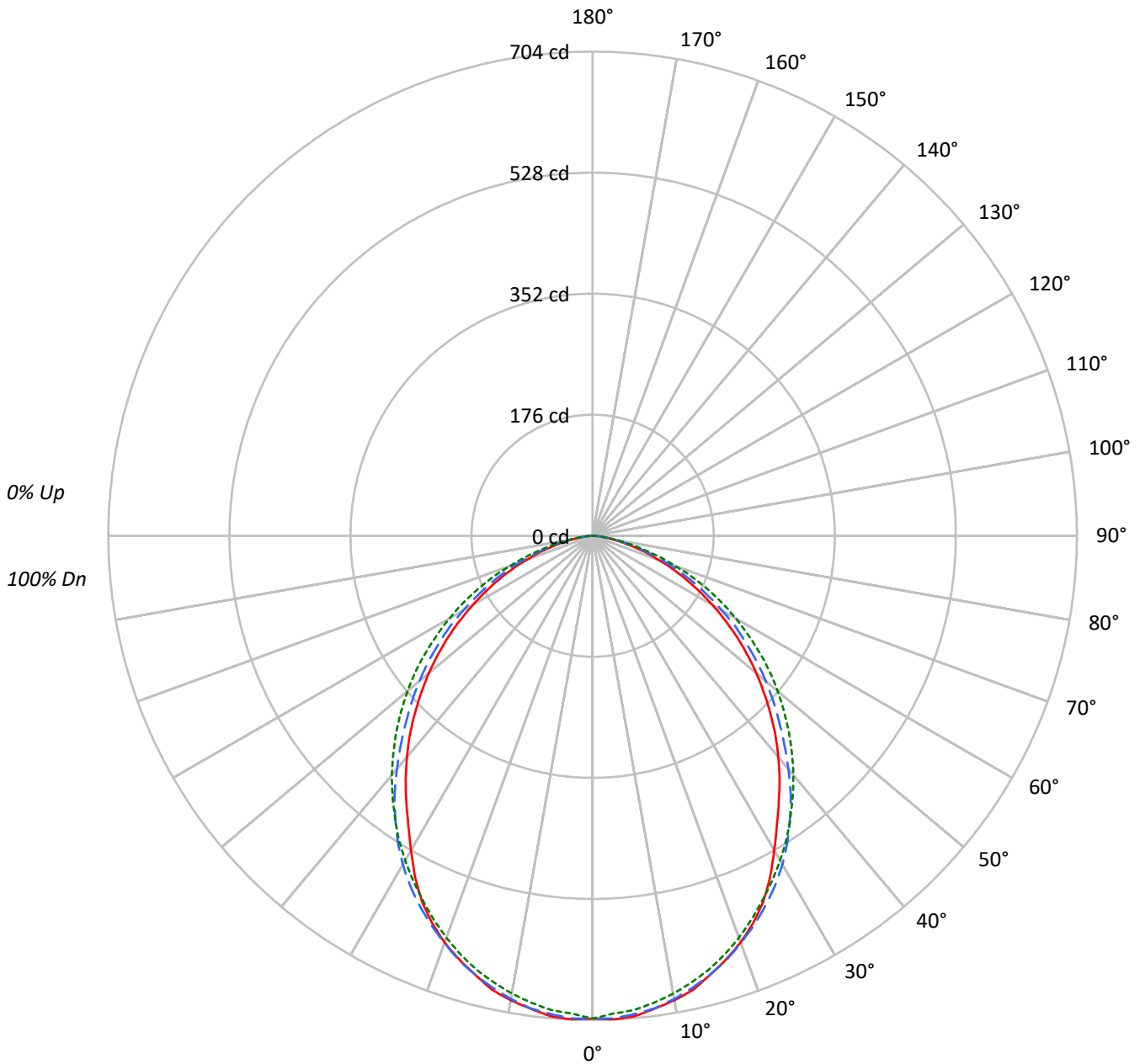
Lumens per Lamp: N/A
Luminaire Lumens: 1623.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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°	3778	3778	3778
5°	3788	3771	3740
10°	3747	3737	3694
15°	3681	3681	3639
20°	3603	3608	3561
25°	3485	3527	3472
30°	3281	3429	3387
35°	3100	3286	3292
40°	2949	3109	3190
45°	2781	2920	3070
50°	2603	2752	2940
55°	2401	2561	2780
60°	2162	2337	2587
65°	1909	2077	2352
70°	1591	1769	1998
75°	1250	1414	1564
80°	896	995	1103
85°	580	580	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	4.1
10°-20°	185.7	11.4
20°-30°	271.3	16.7
30°-40°	308.0	19.0
40°-50°	297.3	18.3
50°-60°	245.2	15.1
60°-70°	163.3	10.1
70°-80°	73.1	4.5
80°-90°	13.1	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°	523.0	32.2
0°-40°	831.0	51.2
0°-60°	1373.5	84.6
0°-90°	1623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	701	701	698	694	692	66
15°	661	662	661	658	653	186
25°	587	591	594	590	585	269
35°	472	478	500	503	501	296
45°	365	372	384	401	403	282
55°	256	260	273	288	296	228
65°	150	154	163	175	185	149
75°	60	63	68	71	75	66
85°	9	9	9	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	701.9	701.9	701.9	701.9	701.9
2.5°	703.8	704.1	702.4	698.1	695.4
5°	701.1	700.8	698.1	694.4	692.2
7.5°	693.3	693.8	693.0	687.6	684.6
10°	685.7	686.0	683.8	679.5	676.0
12.5°	676.0	675.7	672.8	670.6	665.0
15°	660.6	662.3	660.6	657.7	653.1
17.5°	645.8	645.8	646.9	641.8	638.3
20°	629.1	629.9	629.9	625.9	621.8
22.5°	609.7	612.1	612.9	608.6	603.8
25°	586.8	591.3	594.0	589.7	584.6
27.5°	559.0	566.0	574.1	570.9	565.2
30°	528.0	538.2	551.7	549.0	545.0
32.5°	498.6	508.8	527.4	526.4	524.2
35°	471.9	478.4	500.2	502.9	501.0
37.5°	446.5	452.5	473.0	479.2	477.6
40°	419.8	426.3	442.5	453.6	454.1
42.5°	393.4	399.6	412.8	428.7	428.7
45°	365.4	371.6	383.7	401.2	403.4
47.5°	337.9	344.3	356.2	373.7	377.2
50°	310.9	316.8	328.7	345.7	351.1
52.5°	282.9	289.3	300.9	316.6	324.4
55°	255.9	260.2	272.9	288.0	296.3
57.5°	227.9	231.9	246.2	259.1	267.8
60°	200.9	206.0	217.1	230.3	240.3
62.5°	175.0	180.4	189.8	201.4	212.8
65°	149.9	154.0	163.1	174.7	184.7
67.5°	125.7	129.2	138.3	146.4	156.9
70°	101.1	105.7	112.4	120.3	127.0
72.5°	81.4	83.3	89.0	94.6	101.7
75°	60.1	63.4	68.0	71.2	75.2
77.5°	43.1	45.0	47.7	50.4	54.2
80°	28.9	29.7	32.1	32.6	35.6
82.5°	17.5	18.1	18.6	18.9	20.0
85°	9.4	9.4	9.4	8.9	8.9
87.5°	5.4	5.4	4.6	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)