

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: P554073

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-82-88-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: P554073
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-LD4-1HI-50-UNV-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

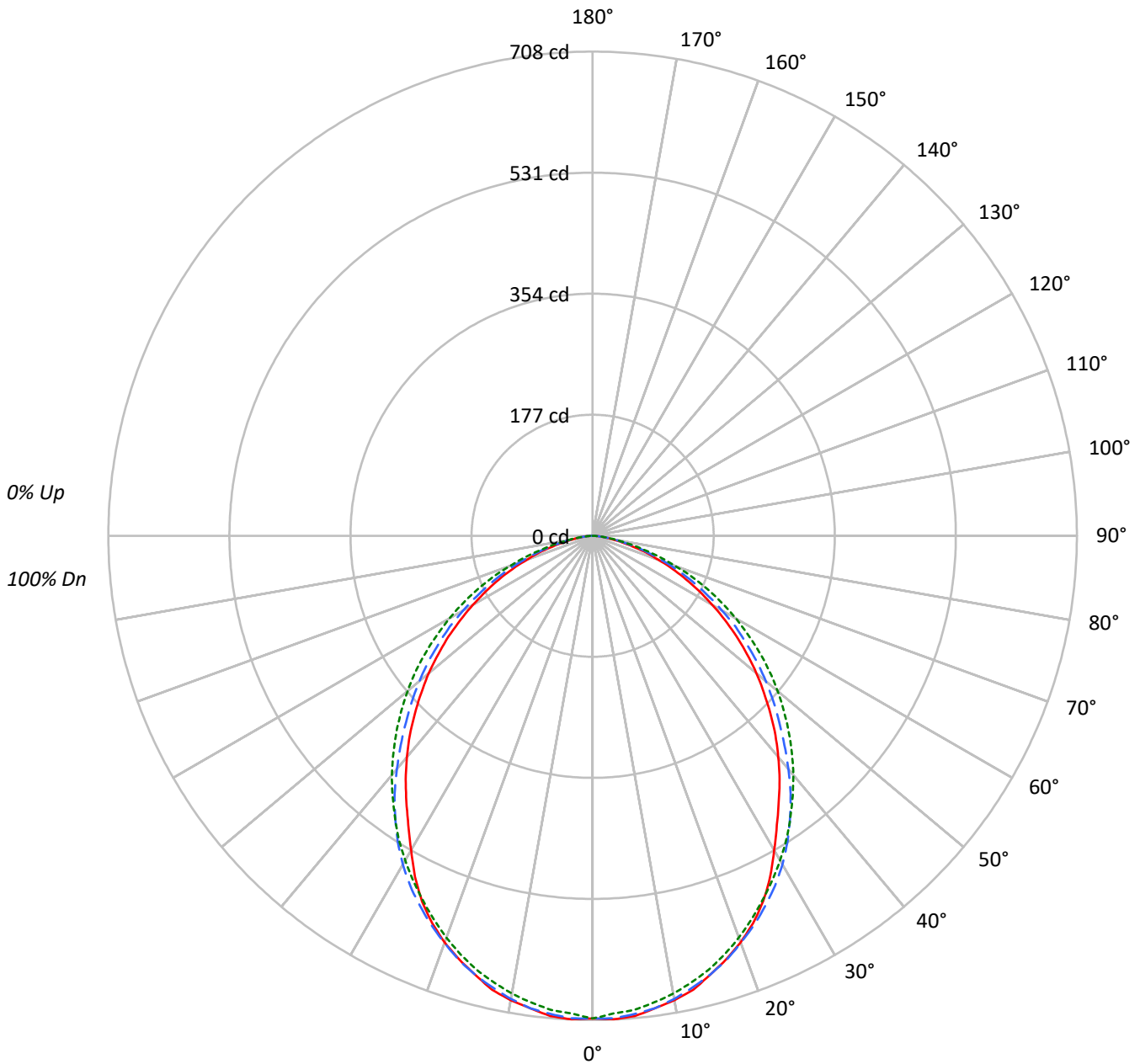
Lumens per Lamp: N/A
Luminaire Lumens: 1632.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	3799	3799	3799
5°	3809	3793	3760
10°	3768	3758	3715
15°	3701	3701	3659
20°	3623	3628	3581
25°	3504	3547	3491
30°	3299	3448	3406
35°	3118	3305	3310
40°	2966	3126	3208
45°	2796	2936	3087
50°	2617	2767	2956
55°	2414	2575	2796
60°	2174	2350	2601
65°	1920	2089	2365
70°	1600	1780	2009
75°	1258	1420	1574
80°	899	1001	1110
85°	587	587	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	4.1
10°-20°	186.7	11.4
20°-30°	272.8	16.7
30°-40°	309.7	19.0
40°-50°	298.9	18.3
50°-60°	246.6	15.1
60°-70°	164.2	10.1
70°-80°	73.5	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°	525.9	32.2
0°-40°	835.6	51.2
0°-60°	1381.1	84.6
0°-90°	1632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	705	705	702	698	696	67
15°	664	666	664	661	657	187
25°	590	595	597	593	588	270
35°	474	481	503	506	504	297
45°	367	374	386	404	406	283
55°	257	262	274	290	298	230
65°	151	155	164	176	186	150
75°	60	64	68	72	76	66
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°	705.8	705.8	705.8	705.8	705.8
2.5°	707.7	708.0	706.3	702.0	699.3
5°	705.0	704.7	702.0	698.2	696.0
7.5°	697.1	697.7	696.8	691.4	688.4
10°	689.5	689.8	687.6	683.3	679.8
12.5°	679.8	679.5	676.5	674.3	668.7
15°	664.3	665.9	664.3	661.3	656.7
17.5°	649.4	649.4	650.5	645.3	641.8
20°	632.6	633.4	633.4	629.3	625.3
22.5°	613.1	615.5	616.3	612.0	607.1
25°	590.0	594.6	597.3	593.0	587.8
27.5°	562.1	569.1	577.3	574.0	568.3
30°	530.9	541.2	554.8	552.1	548.0
32.5°	501.4	511.7	530.4	529.3	527.1
35°	474.5	481.0	503.0	505.7	503.8
37.5°	449.0	455.0	475.6	481.8	480.2
40°	422.2	428.7	445.0	456.1	456.6
42.5°	395.6	401.8	415.1	431.1	431.1
45°	367.4	373.6	385.8	403.5	405.6
47.5°	339.7	346.3	358.2	375.8	379.3
50°	312.6	318.6	330.5	347.6	353.0
52.5°	284.4	290.9	302.6	318.3	326.2
55°	257.3	261.7	274.4	289.6	298.0
57.5°	229.1	233.2	247.6	260.6	269.2
60°	202.0	207.2	218.3	231.6	241.6
62.5°	176.0	181.4	190.9	202.5	213.9
65°	150.8	154.8	164.0	175.7	185.7
67.5°	126.4	129.9	139.1	147.2	157.8
70°	101.7	106.3	113.1	120.9	127.7
72.5°	81.9	83.8	89.5	95.2	102.2
75°	60.5	63.7	68.3	71.6	75.7
77.5°	43.4	45.3	48.0	50.7	54.5
80°	29.0	29.8	32.3	32.8	35.8
82.5°	17.6	18.2	18.7	19.0	20.1
85°	9.5	9.5	9.5	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)