

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: P555080

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-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: P555080
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-50-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

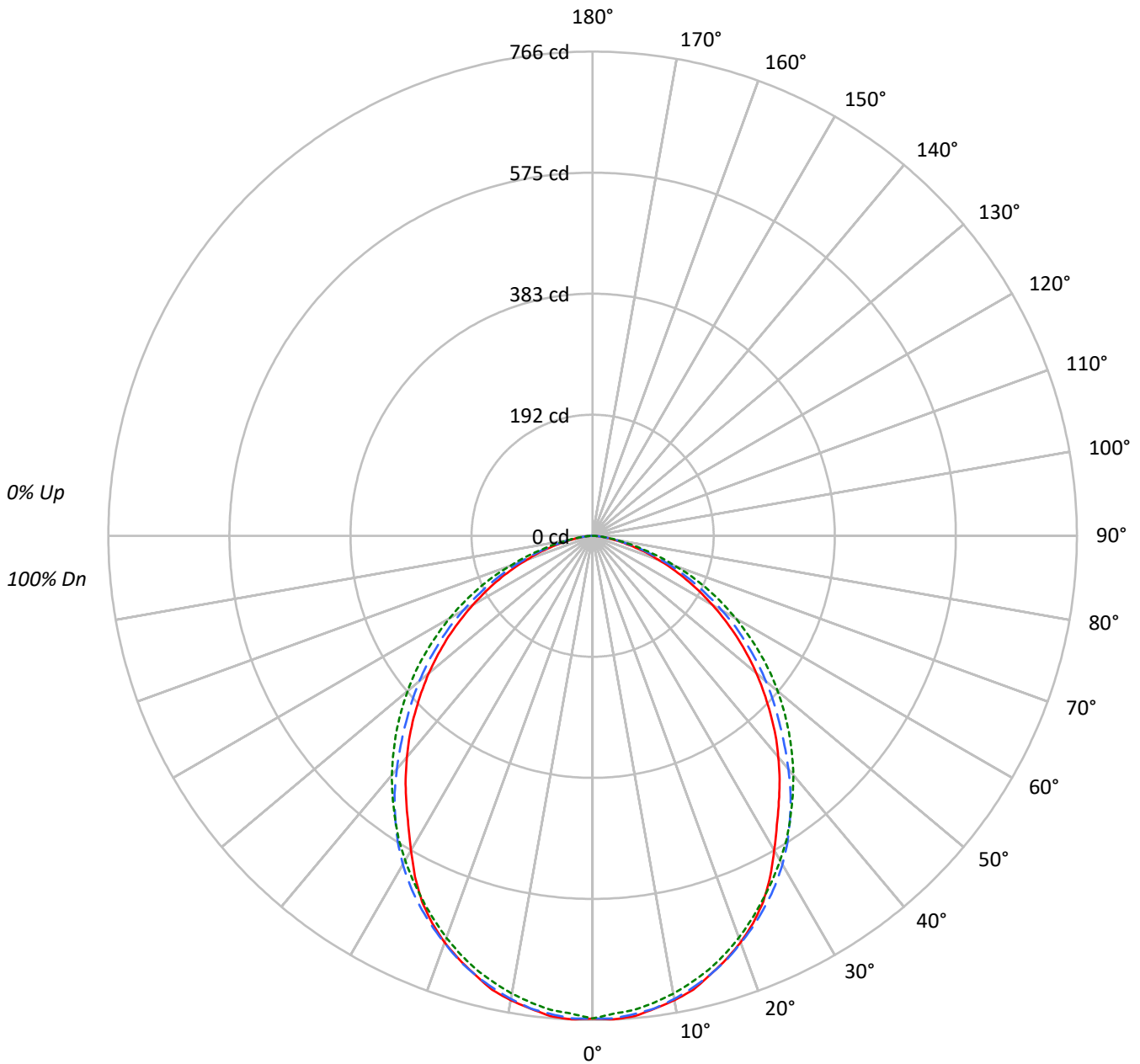
Lumens per Lamp: N/A
Luminaire Lumens: 1766.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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				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			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°	4110	4110	4110
5°	4122	4104	4069
10°	4077	4066	4020
15°	4006	4006	3959
20°	3920	3926	3875
25°	3792	3839	3777
30°	3570	3731	3685
35°	3374	3576	3582
40°	3209	3383	3471
45°	3026	3178	3341
50°	2833	2995	3198
55°	2612	2786	3026
60°	2353	2542	2814
65°	2077	2260	2560
70°	1731	1926	2175
75°	1360	1537	1703
80°	973	1082	1199
85°	636	636	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	4.1
10°-20°	202.0	11.4
20°-30°	295.2	16.7
30°-40°	335.1	19.0
40°-50°	323.5	18.3
50°-60°	266.9	15.1
60°-70°	177.7	10.1
70°-80°	79.5	4.5
80°-90°	14.2	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°	569.1	32.2
0°-40°	904.2	51.2
0°-60°	1494.6	84.6
0°-90°	1766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	763	763	760	756	753	72
15°	719	721	719	716	711	203
25°	638	644	646	642	636	292
35°	514	520	544	547	545	322
45°	398	404	418	437	439	307
55°	278	283	297	313	322	249
65°	163	168	178	190	201	162
75°	65	69	74	78	82	72
85°	10	10	10	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	763.7	763.7	763.7	763.7	763.7
2.5°	765.8	766.1	764.3	759.6	756.7
5°	762.9	762.6	759.6	755.5	753.2
7.5°	754.4	754.9	754.1	748.2	745.0
10°	746.1	746.4	744.1	739.4	735.6
12.5°	735.6	735.3	732.1	729.7	723.6
15°	718.9	720.6	718.9	715.6	710.6
17.5°	702.7	702.7	703.9	698.3	694.5
20°	684.5	685.4	685.4	681.0	676.6
22.5°	663.4	666.0	666.9	662.2	656.9
25°	638.5	643.5	646.4	641.7	636.1
27.5°	608.2	615.9	624.7	621.2	615.0
30°	574.5	585.6	600.3	597.4	593.0
32.5°	542.5	553.7	573.9	572.7	570.4
35°	513.5	520.5	544.3	547.2	545.2
37.5°	485.9	492.3	514.6	521.4	519.6
40°	456.8	463.9	481.5	493.5	494.1
42.5°	428.1	434.8	449.2	466.5	466.5
45°	397.6	404.3	417.5	436.6	438.9
47.5°	367.6	374.7	387.6	406.7	410.5
50°	338.3	344.8	357.7	376.2	382.0
52.5°	307.8	314.8	327.4	344.5	353.0
55°	278.4	283.1	296.9	313.4	322.5
57.5°	247.9	252.3	267.9	282.0	291.4
60°	218.6	224.2	236.2	250.6	261.4
62.5°	190.4	196.3	206.6	219.2	231.5
65°	163.1	167.5	177.5	190.1	201.0
67.5°	136.7	140.5	150.5	159.3	170.8
70°	110.0	115.0	122.4	130.9	138.2
72.5°	88.6	90.7	96.8	103.0	110.6
75°	65.4	69.0	73.9	77.5	81.9
77.5°	46.9	49.0	51.9	54.9	59.0
80°	31.4	32.3	34.9	35.5	38.7
82.5°	19.1	19.7	20.2	20.5	21.7
85°	10.3	10.3	10.3	9.7	9.7
87.5°	5.9	5.9	5.0	4.1	2.9
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)