

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: P555072

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-81-84-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: P555072
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-81-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

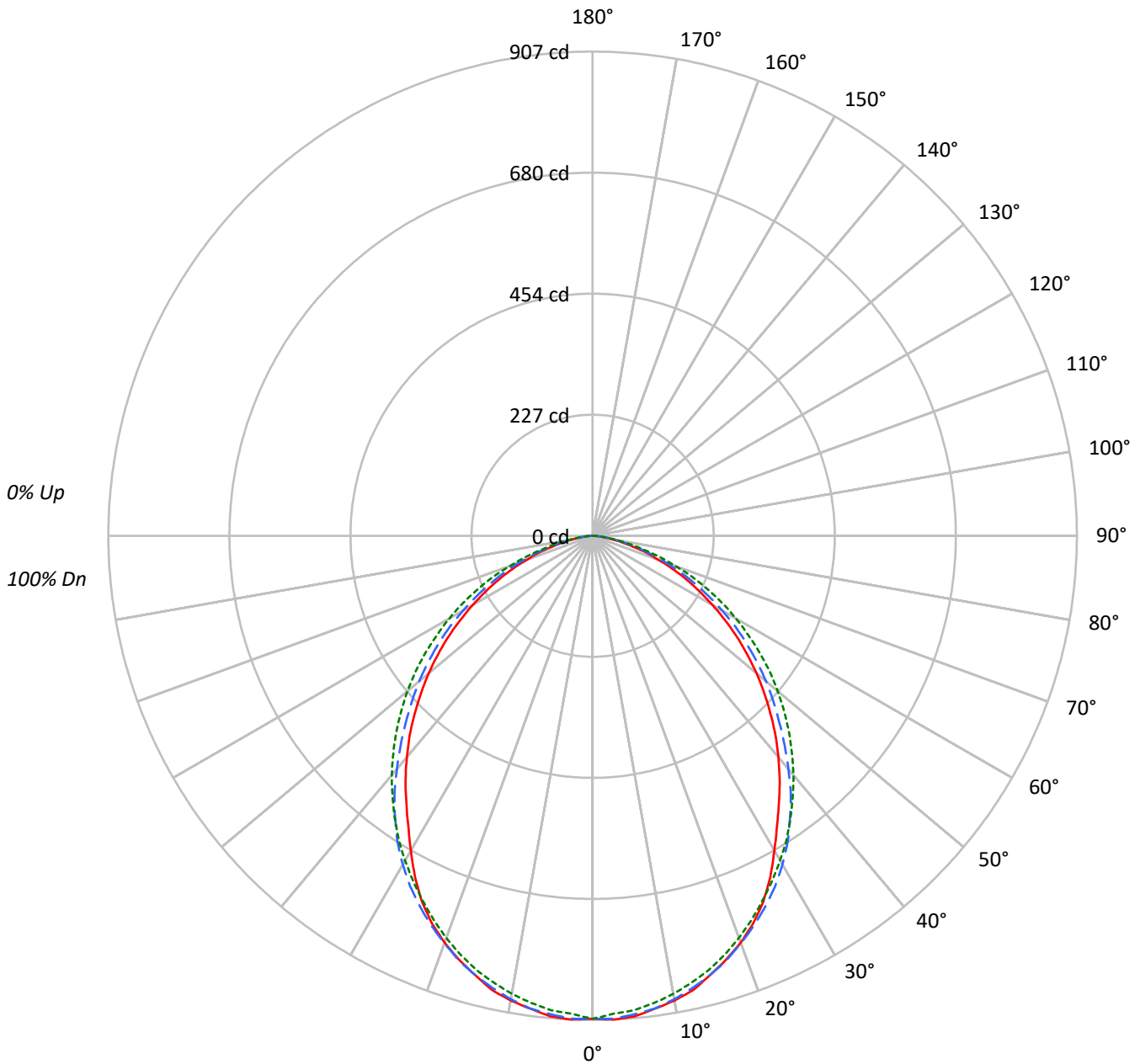
Lumens per Lamp: N/A
Luminaire Lumens: 2092.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4869	4869	4869
5°	4882	4862	4820
10°	4830	4817	4762
15°	4745	4745	4690
20°	4644	4650	4590
25°	4491	4547	4475
30°	4230	4419	4365
35°	3997	4236	4243
40°	3802	4007	4112
45°	3585	3765	3958
50°	3356	3548	3789
55°	3095	3300	3584
60°	2787	3012	3334
65°	2462	2678	3032
70°	2050	2280	2576
75°	1612	1822	2017
80°	1153	1283	1423
85°	753	753	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	4.1
10°-20°	239.3	11.4
20°-30°	349.7	16.7
30°-40°	397.0	19.0
40°-50°	383.2	18.3
50°-60°	316.1	15.1
60°-70°	210.5	10.1
70°-80°	94.2	4.5
80°-90°	16.9	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°	674.2	32.2
0°-40°	1071.1	51.2
0°-60°	1770.4	84.6
0°-90°	2092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	904	903	900	895	892	86
15°	852	854	852	848	842	240
25°	756	762	766	760	754	346
35°	608	617	645	648	646	381
45°	471	479	495	517	520	363
55°	330	335	352	371	382	294
65°	193	198	210	225	238	192
75°	78	82	88	92	97	85
85°	12	12	12	12	12	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.7	904.7	904.7	904.7	904.7
2.5°	907.2	907.5	905.4	899.9	896.4
5°	903.7	903.3	899.9	895.0	892.2
7.5°	893.6	894.3	893.3	886.3	882.5
10°	883.9	884.2	881.4	875.9	871.4
12.5°	871.4	871.0	867.2	864.4	857.1
15°	851.6	853.6	851.6	847.7	841.8
17.5°	832.4	832.4	833.8	827.2	822.7
20°	810.9	811.9	811.9	806.7	801.5
22.5°	785.9	789.0	790.0	784.5	778.2
25°	756.3	762.2	765.7	760.1	753.5
27.5°	720.5	729.6	740.0	735.8	728.5
30°	680.6	693.8	711.1	707.7	702.4
32.5°	642.7	655.9	679.9	678.5	675.7
35°	608.3	616.6	644.8	648.2	645.8
37.5°	575.6	583.2	609.6	617.6	615.6
40°	541.2	549.5	570.4	584.6	585.3
42.5°	507.1	515.1	532.1	552.6	552.6
45°	471.0	479.0	494.6	517.2	520.0
47.5°	435.5	443.9	459.1	481.7	486.3
50°	400.8	408.4	423.7	445.6	452.5
52.5°	364.6	372.9	387.9	408.1	418.1
55°	329.8	335.4	351.7	371.2	382.0
57.5°	293.7	298.9	317.3	334.0	345.1
60°	258.9	265.5	279.8	296.8	309.7
62.5°	225.6	232.5	244.7	259.6	274.2
65°	193.3	198.5	210.3	225.2	238.1
67.5°	162.0	166.5	178.3	188.7	202.3
70°	130.3	136.2	144.9	155.0	163.7
72.5°	105.0	107.4	114.7	122.0	131.0
75°	77.5	81.7	87.6	91.8	97.0
77.5°	55.6	58.0	61.5	65.0	69.9
80°	37.2	38.2	41.4	42.1	45.9
82.5°	22.6	23.3	24.0	24.3	25.7
85°	12.2	12.2	12.2	11.5	11.5
87.5°	7.0	7.0	5.9	4.9	3.5
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)