

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: P554887

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-81-87-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: P554887
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-30-UNV-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

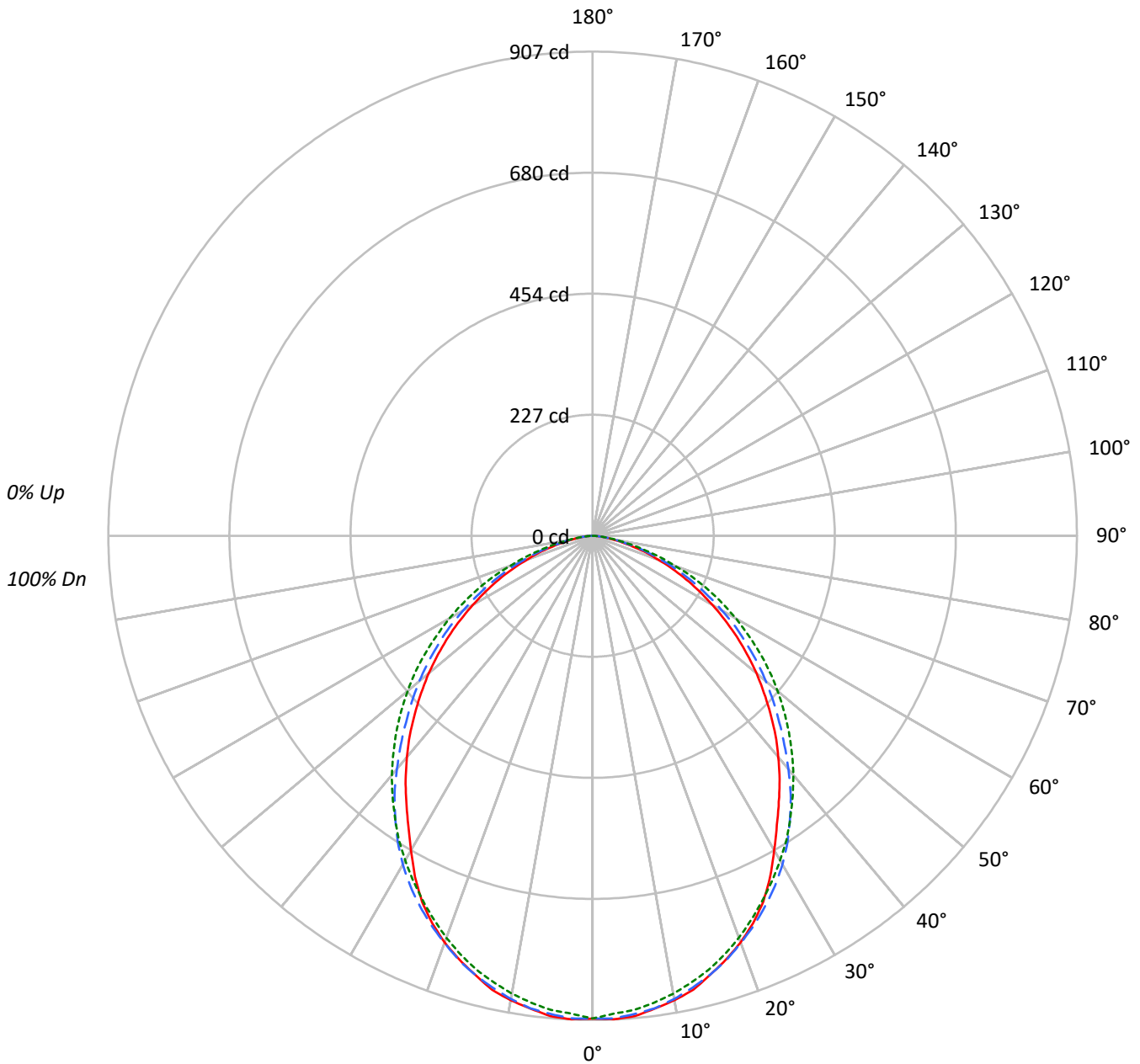
Lumens per Lamp: N/A
Luminaire Lumens: 2091.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4867	4867	4867
5°	4880	4859	4818
10°	4828	4815	4760
15°	4743	4743	4688
20°	4642	4648	4588
25°	4489	4545	4473
30°	4227	4417	4363
35°	3995	4234	4241
40°	3800	4005	4110
45°	3583	3763	3956
50°	3354	3546	3787
55°	3094	3299	3582
60°	2786	3011	3331
65°	2460	2677	3031
70°	2050	2280	2574
75°	1612	1820	2015
80°	1153	1280	1423
85°	753	753	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	4.1
10°-20°	239.2	11.4
20°-30°	349.5	16.7
30°-40°	396.8	19.0
40°-50°	383.0	18.3
50°-60°	316.0	15.1
60°-70°	210.4	10.1
70°-80°	94.1	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°	673.9	32.2
0°-40°	1070.6	51.2
0°-60°	1769.6	84.6
0°-90°	2091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	903	903	899	895	892	85
15°	851	853	851	847	841	240
25°	756	762	765	760	753	346
35°	608	616	644	648	646	381
45°	471	479	494	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°	904.3	904.3	904.3	904.3	904.3
2.5°	906.7	907.1	905.0	899.4	896.0
5°	903.3	902.9	899.4	894.6	891.8
7.5°	893.2	893.9	892.8	885.9	882.1
10°	883.5	883.8	881.0	875.5	871.0
12.5°	871.0	870.6	866.8	864.0	856.7
15°	851.2	853.2	851.2	847.3	841.4
17.5°	832.0	832.0	833.4	826.8	822.3
20°	810.5	811.5	811.5	806.3	801.1
22.5°	785.5	788.6	789.7	784.1	777.8
25°	756.0	761.9	765.3	759.8	753.2
27.5°	720.2	729.2	739.6	735.5	728.2
30°	680.2	693.4	710.8	707.3	702.1
32.5°	642.4	655.6	679.5	678.1	675.4
35°	608.0	616.3	644.4	647.9	645.5
37.5°	575.3	583.0	609.4	617.3	615.3
40°	540.9	549.3	570.1	584.3	585.0
42.5°	506.9	514.9	531.9	552.4	552.4
45°	470.7	478.7	494.4	516.9	519.7
47.5°	435.3	443.6	458.9	481.5	486.0
50°	400.6	408.2	423.5	445.4	452.3
52.5°	364.4	372.8	387.7	407.9	417.9
55°	329.7	335.2	351.6	371.0	381.8
57.5°	293.6	298.8	317.2	333.9	345.0
60°	258.8	265.4	279.7	296.7	309.5
62.5°	225.5	232.4	244.6	259.5	274.1
65°	193.2	198.4	210.2	225.1	238.0
67.5°	161.9	166.4	178.2	188.6	202.2
70°	130.3	136.2	144.9	154.9	163.6
72.5°	104.9	107.3	114.6	121.9	131.0
75°	77.5	81.6	87.5	91.7	96.9
77.5°	55.6	58.0	61.5	65.0	69.8
80°	37.2	38.2	41.3	42.0	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°	6.9	6.9	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)