

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: P555010

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-81-85-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: P555010
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-40-UNV-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

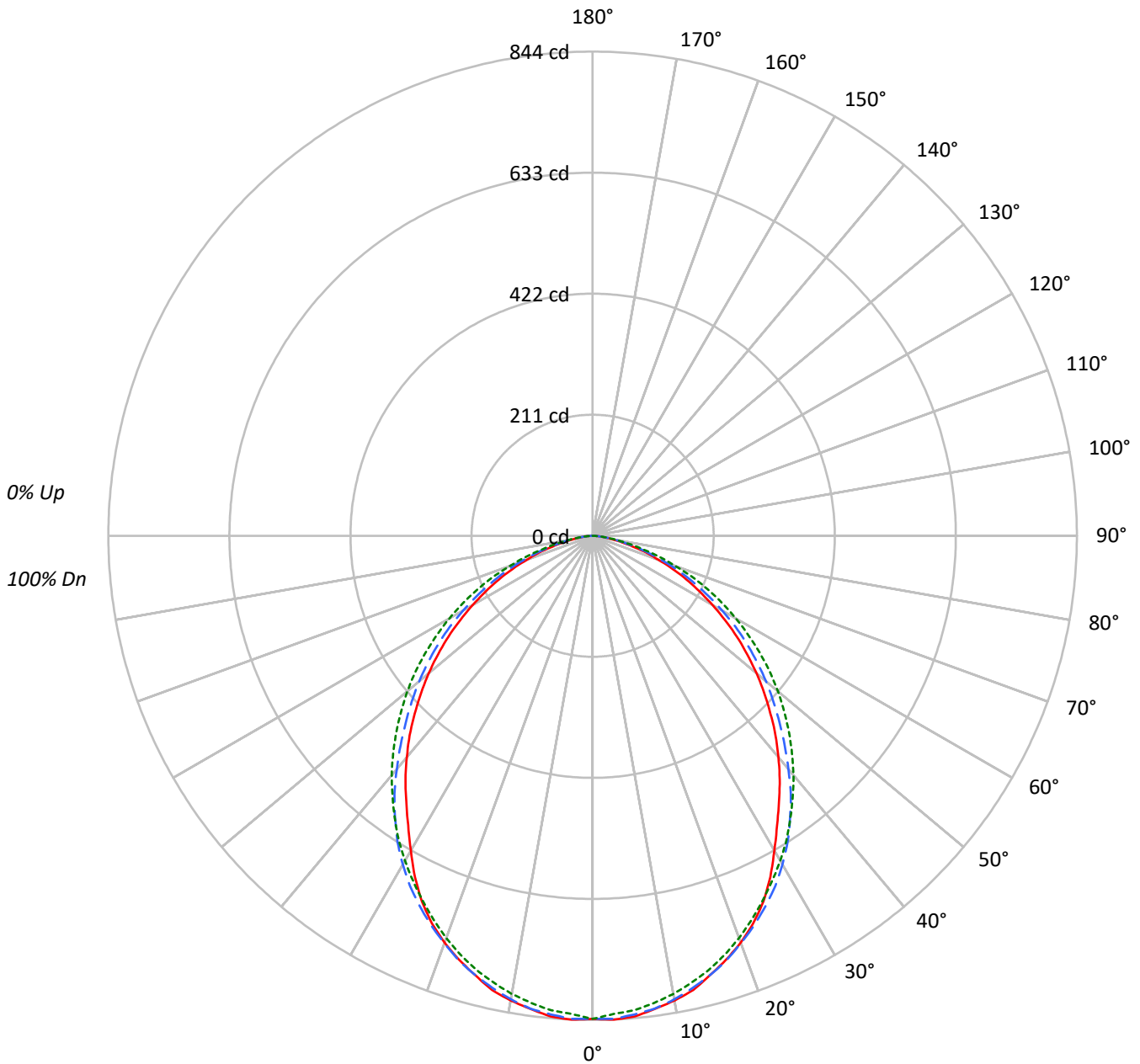
Lumens per Lamp: N/A
Luminaire Lumens: 1947.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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									
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°	4532	4532	4532
5°	4544	4525	4486
10°	4495	4483	4432
15°	4416	4416	4366
20°	4322	4328	4273
25°	4180	4232	4165
30°	3936	4113	4063
35°	3719	3943	3949
40°	3539	3729	3827
45°	3336	3503	3683
50°	3123	3301	3527
55°	2881	3072	3336
60°	2594	2803	3102
65°	2291	2492	2822
70°	1909	2123	2398
75°	1499	1695	1878
80°	1072	1193	1323
85°	698	698	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	4.1
10°-20°	222.7	11.4
20°-30°	325.5	16.7
30°-40°	369.4	19.0
40°-50°	356.6	18.3
50°-60°	294.2	15.1
60°-70°	195.9	10.1
70°-80°	87.7	4.5
80°-90°	15.7	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°	627.5	32.2
0°-40°	996.9	51.2
0°-60°	1647.7	84.6
0°-90°	1947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	841	841	838	833	830	80
15°	792	794	792	789	784	223
25°	704	709	713	708	701	322
35°	566	574	600	603	601	355
45°	438	446	460	481	484	338
55°	307	312	327	346	356	274
65°	180	185	196	210	222	178
75°	72	76	82	85	90	79
85°	11	11	11	11	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.0	842.0	842.0	842.0	842.0
2.5°	844.3	844.6	842.7	837.5	834.3
5°	841.1	840.7	837.5	833.0	830.4
7.5°	831.7	832.3	831.4	824.9	821.3
10°	822.6	822.9	820.4	815.2	811.0
12.5°	811.0	810.6	807.1	804.5	797.7
15°	792.5	794.5	792.5	789.0	783.5
17.5°	774.7	774.7	776.0	769.9	765.7
20°	754.7	755.7	755.7	750.8	746.0
22.5°	731.4	734.3	735.3	730.1	724.3
25°	703.9	709.4	712.6	707.5	701.3
27.5°	670.6	679.0	688.7	684.8	678.0
30°	633.4	645.7	661.8	658.6	653.8
32.5°	598.1	610.4	632.7	631.4	628.9
35°	566.1	573.9	600.1	603.3	601.0
37.5°	535.7	542.8	567.4	574.8	572.9
40°	503.7	511.4	530.8	544.1	544.7
42.5°	472.0	479.4	495.3	514.3	514.3
45°	438.3	445.8	460.3	481.3	483.9
47.5°	405.3	413.1	427.3	448.3	452.6
50°	373.0	380.1	394.3	414.7	421.2
52.5°	339.3	347.1	361.0	379.8	389.2
55°	307.0	312.2	327.4	345.5	355.5
57.5°	273.3	278.2	295.3	310.9	321.2
60°	241.0	247.1	260.4	276.3	288.2
62.5°	209.9	216.4	227.7	241.6	255.2
65°	179.9	184.7	195.7	209.6	221.6
67.5°	150.7	154.9	165.9	175.7	188.3
70°	121.3	126.8	134.9	144.3	152.4
72.5°	97.7	100.0	106.7	113.5	122.0
75°	72.1	76.0	81.5	85.4	90.3
77.5°	51.8	54.0	57.3	60.5	65.0
80°	34.6	35.6	38.5	39.1	42.7
82.5°	21.0	21.7	22.3	22.6	23.9
85°	11.3	11.3	11.3	10.7	10.7
87.5°	6.5	6.5	5.5	4.5	3.2
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)