

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: P555053

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-93-96-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: P555053
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-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

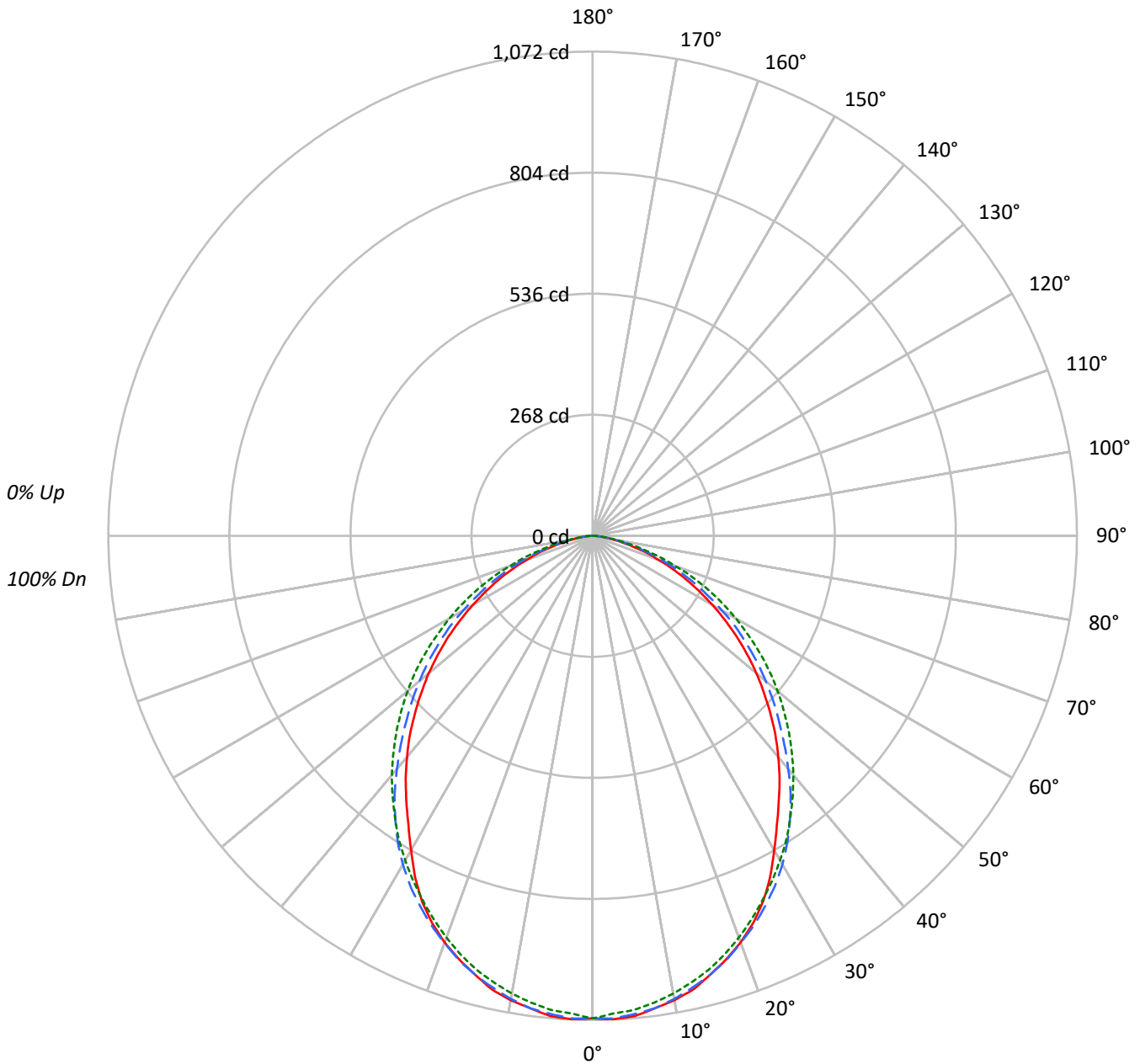
Lumens per Lamp: N/A
Luminaire Lumens: 2471.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5751	5751	5751
5°	5767	5742	5694
10°	5705	5690	5625
15°	5604	5604	5540
20°	5486	5493	5422
25°	5305	5371	5286
30°	4995	5220	5156
35°	4721	5004	5012
40°	4491	4733	4858
45°	4234	4446	4675
50°	3964	4191	4475
55°	3656	3899	4234
60°	3293	3557	3937
65°	2907	3163	3581
70°	2423	2694	3043
75°	1905	2152	2381
80°	1361	1516	1680
85°	889	889	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	4.1
10°-20°	282.7	11.4
20°-30°	413.1	16.7
30°-40°	468.9	19.0
40°-50°	452.6	18.3
50°-60°	373.4	15.1
60°-70°	248.6	10.1
70°-80°	111.3	4.5
80°-90°	19.9	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°	796.3	32.2
0°-40°	1265.2	51.2
0°-60°	2091.2	84.6
0°-90°	2471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1067	1067	1063	1057	1054	101
15°	1006	1008	1006	1001	994	284
25°	893	900	904	898	890	409
35°	718	728	762	766	763	450
45°	556	566	584	611	614	429
55°	390	396	416	438	451	348
65°	228	234	248	266	281	226
75°	92	96	104	108	114	100
85°	14	14	14	14	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.6	1068.6	1068.6	1068.6	1068.6
2.5°	1071.5	1071.9	1069.5	1062.9	1058.8
5°	1067.4	1067.0	1062.9	1057.1	1053.9
7.5°	1055.5	1056.3	1055.1	1046.9	1042.4
10°	1044.0	1044.4	1041.1	1034.6	1029.2
12.5°	1029.2	1028.8	1024.3	1021.0	1012.4
15°	1005.8	1008.3	1005.8	1001.3	994.3
17.5°	983.3	983.3	984.9	977.1	971.8
20°	957.8	959.0	959.0	952.9	946.7
22.5°	928.2	931.9	933.2	926.6	919.2
25°	893.3	900.3	904.4	897.9	890.1
27.5°	851.1	861.7	874.0	869.1	860.5
30°	803.8	819.4	840.0	835.9	829.7
32.5°	759.1	774.7	803.0	801.4	798.1
35°	718.5	728.3	761.6	765.7	762.8
37.5°	679.9	688.9	720.1	729.5	727.1
40°	639.2	649.1	673.7	690.5	691.4
42.5°	599.0	608.4	628.5	652.8	652.8
45°	556.3	565.7	584.2	610.9	614.2
47.5°	514.4	524.3	542.3	569.0	574.3
50°	473.4	482.4	500.5	526.3	534.5
52.5°	430.7	440.5	458.2	482.0	493.9
55°	389.6	396.2	415.5	438.5	451.2
57.5°	346.9	353.1	374.8	394.5	407.7
60°	305.9	313.7	330.5	350.6	365.8
62.5°	266.4	274.7	289.0	306.7	323.9
65°	228.3	234.4	248.4	266.0	281.2
67.5°	191.3	196.7	210.6	222.9	238.9
70°	154.0	160.9	171.2	183.1	193.4
72.5°	124.0	126.9	135.5	144.1	154.8
75°	91.6	96.5	103.5	108.4	114.5
77.5°	65.7	68.6	72.7	76.8	82.5
80°	43.9	45.2	48.9	49.7	54.2
82.5°	26.7	27.5	28.3	28.7	30.4
85°	14.4	14.4	14.4	13.5	13.5
87.5°	8.2	8.2	7.0	5.7	4.1
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)