

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: P554986

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-93-94-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: P554986
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-35-UNV-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

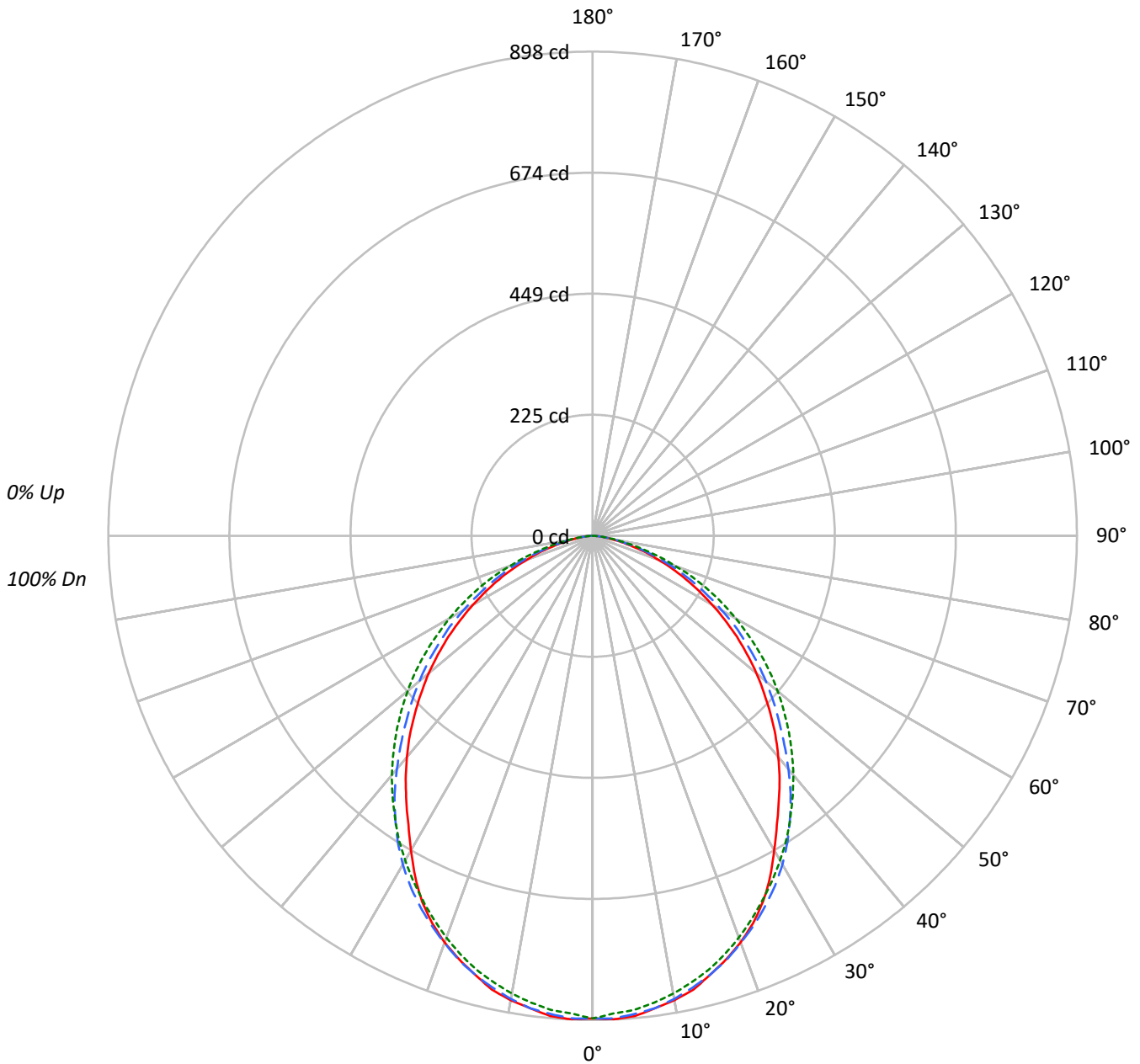
Lumens per Lamp: N/A
Luminaire Lumens: 2070.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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°	4818	4818	4818
5°	4831	4810	4769
10°	4780	4767	4712
15°	4695	4695	4641
20°	4596	4601	4542
25°	4444	4499	4428
30°	4185	4373	4320
35°	3955	4192	4198
40°	3762	3965	4069
45°	3547	3725	3916
50°	3320	3510	3749
55°	3063	3265	3547
60°	2758	2981	3298
65°	2435	2650	3000
70°	2030	2257	2549
75°	1595	1803	1996
80°	1141	1268	1407
85°	741	741	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	4.1
10°-20°	236.8	11.4
20°-30°	346.0	16.7
30°-40°	392.8	19.0
40°-50°	379.2	18.3
50°-60°	312.8	15.1
60°-70°	208.3	10.1
70°-80°	93.2	4.5
80°-90°	16.7	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°	667.1	32.2
0°-40°	1059.9	51.2
0°-60°	1751.8	84.6
0°-90°	2070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	894	894	890	886	883	85
15°	843	845	843	839	833	238
25°	748	754	758	752	746	343
35°	602	610	638	641	639	377
45°	466	474	489	512	514	360
55°	326	332	348	367	378	291
65°	191	196	208	223	236	190
75°	77	81	87	91	96	84
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	895.2	895.2	895.2	895.2	895.2
2.5°	897.6	898.0	895.9	890.4	887.0
5°	894.2	893.8	890.4	885.6	882.8
7.5°	884.2	884.9	883.9	877.0	873.2
10°	874.6	874.9	872.2	866.7	862.2
12.5°	862.2	861.9	858.1	855.3	848.1
15°	842.6	844.7	842.6	838.8	833.0
17.5°	823.7	823.7	825.1	818.5	814.1
20°	802.4	803.4	803.4	798.2	793.1
22.5°	777.6	780.7	781.7	776.2	770.0
25°	748.4	754.2	757.7	752.2	745.6
27.5°	712.9	721.9	732.2	728.1	720.9
30°	673.4	686.5	703.7	700.2	695.1
32.5°	635.9	649.0	672.7	671.3	668.6
35°	601.9	610.1	638.0	641.4	639.0
37.5°	569.5	577.1	603.2	611.1	609.1
40°	535.5	543.7	564.4	578.5	579.2
42.5°	501.8	509.7	526.5	546.8	546.8
45°	466.0	473.9	489.4	511.8	514.5
47.5°	430.9	439.2	454.3	476.7	481.1
50°	396.5	404.1	419.2	440.9	447.8
52.5°	360.8	369.0	383.8	403.8	413.7
55°	326.4	331.9	348.0	367.3	378.0
57.5°	290.6	295.8	314.0	330.5	341.5
60°	256.2	262.8	276.9	293.7	306.4
62.5°	223.2	230.1	242.1	256.9	271.4
65°	191.2	196.4	208.1	222.9	235.6
67.5°	160.3	164.7	176.4	186.7	200.2
70°	129.0	134.8	143.4	153.4	162.0
72.5°	103.9	106.3	113.5	120.7	129.7
75°	76.7	80.8	86.7	90.8	96.0
77.5°	55.0	57.4	60.9	64.3	69.1
80°	36.8	37.8	40.9	41.6	45.4
82.5°	22.4	23.0	23.7	24.1	25.5
85°	12.0	12.0	12.0	11.3	11.3
87.5°	6.9	6.9	5.8	4.8	3.4
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)