

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: P553849

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-80-88-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: P553849
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-LD4-1HI-30-UNV-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

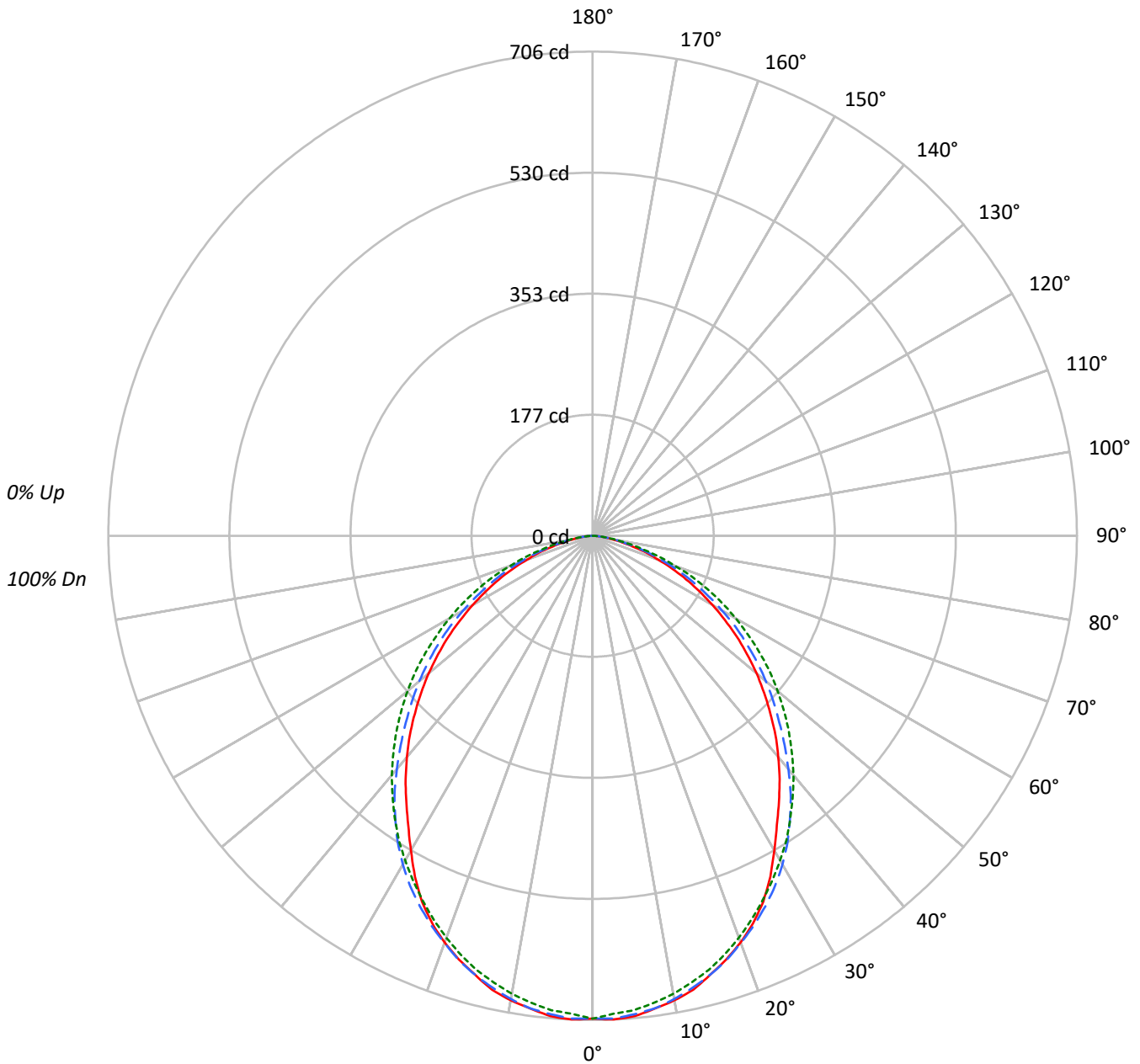
Lumens per Lamp: N/A
Luminaire Lumens: 1628.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	3789	3789	3789
5°	3800	3783	3751
10°	3759	3748	3706
15°	3692	3692	3650
20°	3614	3619	3572
25°	3495	3539	3482
30°	3291	3439	3397
35°	3110	3296	3302
40°	2958	3119	3200
45°	2790	2930	3080
50°	2611	2761	2949
55°	2409	2568	2790
60°	2169	2343	2594
65°	1915	2083	2360
70°	1596	1775	2005
75°	1254	1418	1570
80°	896	998	1106
85°	587	587	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	4.1
10°-20°	186.2	11.4
20°-30°	272.1	16.7
30°-40°	308.9	19.0
40°-50°	298.2	18.3
50°-60°	246.0	15.1
60°-70°	163.8	10.1
70°-80°	73.3	4.5
80°-90°	13.1	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°	524.7	32.2
0°-40°	833.6	51.2
0°-60°	1377.8	84.6
0°-90°	1628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	703	703	700	696	694	67
15°	663	664	663	660	655	187
25°	589	593	596	592	586	270
35°	473	480	502	504	503	297
45°	366	373	385	402	405	283
55°	257	261	274	289	297	229
65°	150	154	164	175	185	149
75°	60	64	68	71	76	66
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.1	704.1	704.1	704.1	704.1
2.5°	706.0	706.2	704.6	700.3	697.6
5°	703.3	703.0	700.3	696.5	694.3
7.5°	695.4	696.0	695.1	689.7	686.8
10°	687.8	688.1	685.9	681.6	678.1
12.5°	678.1	677.8	674.9	672.7	667.0
15°	662.7	664.3	662.7	659.7	655.1
17.5°	647.8	647.8	648.9	643.8	640.2
20°	631.0	631.8	631.8	627.8	623.7
22.5°	611.6	614.0	614.8	610.5	605.6
25°	588.6	593.2	595.9	591.5	586.4
27.5°	560.7	567.7	575.9	572.6	566.9
30°	529.6	539.9	553.4	550.7	546.6
32.5°	500.1	510.4	529.1	528.0	525.8
35°	473.3	479.8	501.7	504.5	502.6
37.5°	447.9	453.9	474.4	480.6	479.0
40°	421.1	427.6	443.9	455.0	455.5
42.5°	394.6	400.9	414.1	430.1	430.1
45°	366.5	372.7	384.9	402.5	404.6
47.5°	338.9	345.4	357.3	374.9	378.4
50°	311.9	317.8	329.7	346.8	352.2
52.5°	283.7	290.2	301.9	317.5	325.4
55°	256.7	261.0	273.7	288.9	297.3
57.5°	228.6	232.6	247.0	259.9	268.6
60°	201.5	206.6	217.7	231.0	241.0
62.5°	175.5	181.0	190.4	202.1	213.4
65°	150.4	154.4	163.6	175.3	185.3
67.5°	126.0	129.6	138.8	146.9	157.4
70°	101.4	106.0	112.8	120.6	127.4
72.5°	81.7	83.6	89.3	94.9	102.0
75°	60.3	63.6	68.2	71.4	75.5
77.5°	43.3	45.2	47.9	50.6	54.4
80°	28.9	29.8	32.2	32.7	35.7
82.5°	17.6	18.1	18.7	18.9	20.0
85°	9.5	9.5	9.5	8.9	8.9
87.5°	5.4	5.4	4.6	3.8	2.7
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)