

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: P553841

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-80-84-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: P553841
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-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

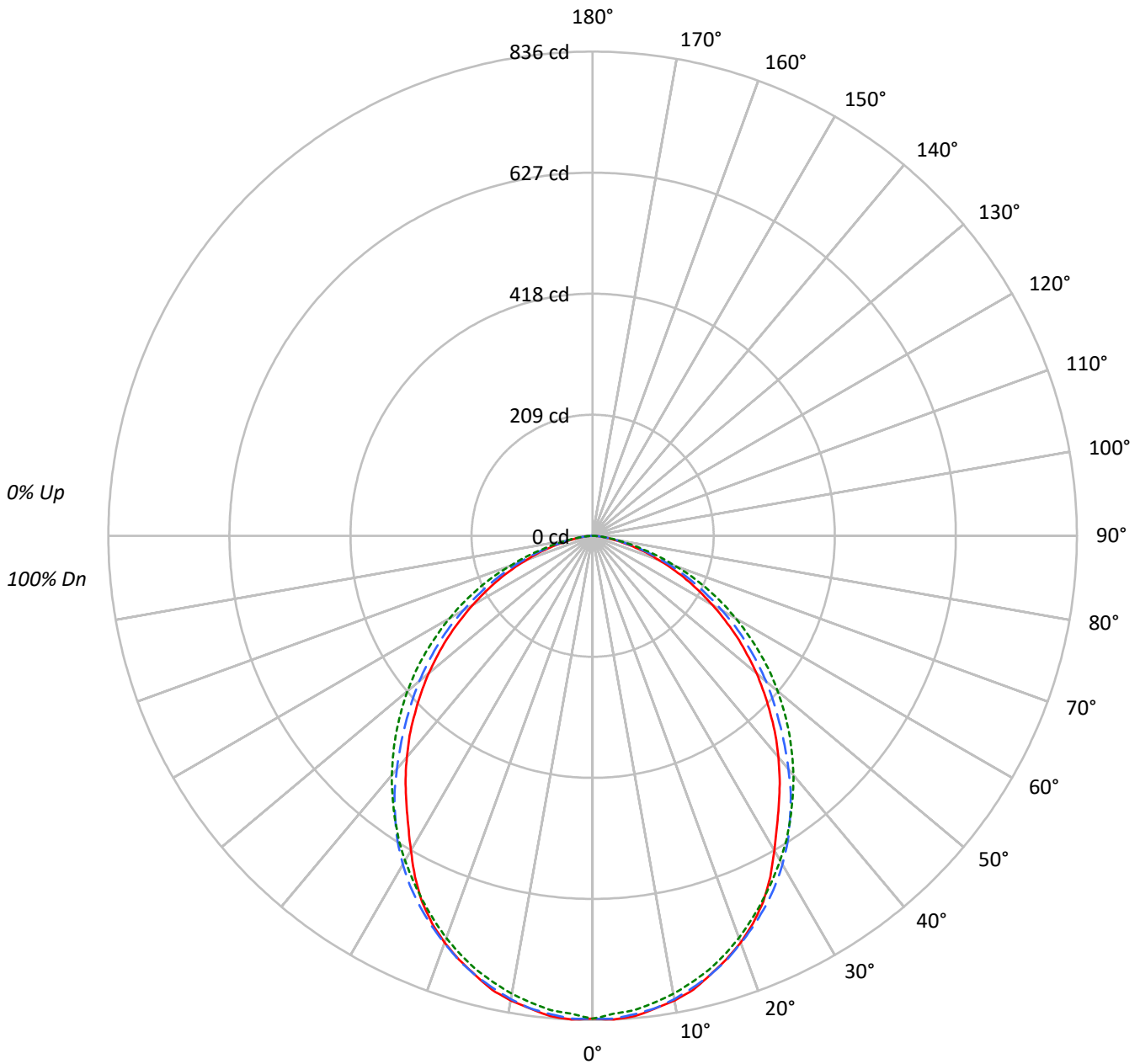
Lumens per Lamp: N/A
Luminaire Lumens: 1928.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4487	4487	4487
5°	4499	4480	4442
10°	4452	4439	4389
15°	4373	4373	4323
20°	4280	4286	4231
25°	4139	4191	4124
30°	3898	4073	4023
35°	3683	3904	3911
40°	3504	3693	3790
45°	3303	3469	3647
50°	3092	3270	3492
55°	2852	3042	3303
60°	2568	2776	3072
65°	2268	2468	2794
70°	1890	2102	2375
75°	1485	1678	1859
80°	1063	1181	1311
85°	692	692	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	4.1
10°-20°	220.5	11.4
20°-30°	322.3	16.7
30°-40°	365.8	19.0
40°-50°	353.2	18.3
50°-60°	291.3	15.1
60°-70°	194.0	10.1
70°-80°	86.8	4.5
80°-90°	15.5	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°	621.3	32.2
0°-40°	987.2	51.2
0°-60°	1631.7	84.6
0°-90°	1928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	833	832	829	825	822	79
15°	785	787	785	781	776	221
25°	697	702	706	701	694	319
35°	561	568	594	597	595	351
45°	434	441	456	477	479	335
55°	304	309	324	342	352	271
65°	178	183	194	208	219	177
75°	71	75	81	85	89	78
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°	833.8	833.8	833.8	833.8	833.8
2.5°	836.1	836.4	834.5	829.3	826.1
5°	832.8	832.5	829.3	824.8	822.3
7.5°	823.6	824.2	823.2	816.8	813.3
10°	814.6	814.9	812.3	807.2	803.1
12.5°	803.1	802.7	799.2	796.7	789.9
15°	784.8	786.7	784.8	781.3	775.8
17.5°	767.2	767.2	768.5	762.4	758.2
20°	747.3	748.3	748.3	743.5	738.7
22.5°	724.3	727.1	728.1	723.0	717.2
25°	697.0	702.5	705.7	700.6	694.5
27.5°	664.0	672.4	682.0	678.1	671.4
30°	627.2	639.4	655.4	652.2	647.4
32.5°	592.3	604.5	626.6	625.3	622.7
35°	560.6	568.3	594.2	597.4	595.2
37.5°	530.5	537.5	561.9	569.2	567.3
40°	498.7	506.4	525.7	538.8	539.4
42.5°	467.4	474.7	490.4	509.3	509.3
45°	434.0	441.4	455.8	476.6	479.2
47.5°	401.4	409.1	423.2	444.0	448.1
50°	369.3	376.4	390.5	410.7	417.1
52.5°	336.0	343.7	357.5	376.1	385.4
55°	304.0	309.1	324.2	342.1	352.0
57.5°	270.7	275.5	292.5	307.8	318.1
60°	238.6	244.7	257.9	273.6	285.4
62.5°	207.9	214.3	225.5	239.3	252.7
65°	178.1	182.9	193.8	207.6	219.4
67.5°	149.3	153.4	164.3	173.9	186.4
70°	120.1	125.6	133.6	142.9	150.9
72.5°	96.7	99.0	105.7	112.4	120.8
75°	71.4	75.3	80.7	84.6	89.4
77.5°	51.3	53.5	56.7	59.9	64.4
80°	34.3	35.2	38.1	38.8	42.3
82.5°	20.8	21.5	22.1	22.4	23.7
85°	11.2	11.2	11.2	10.6	10.6
87.5°	6.4	6.4	5.4	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)