

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: P553974

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-80-87-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: P553974
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-40-UNV-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

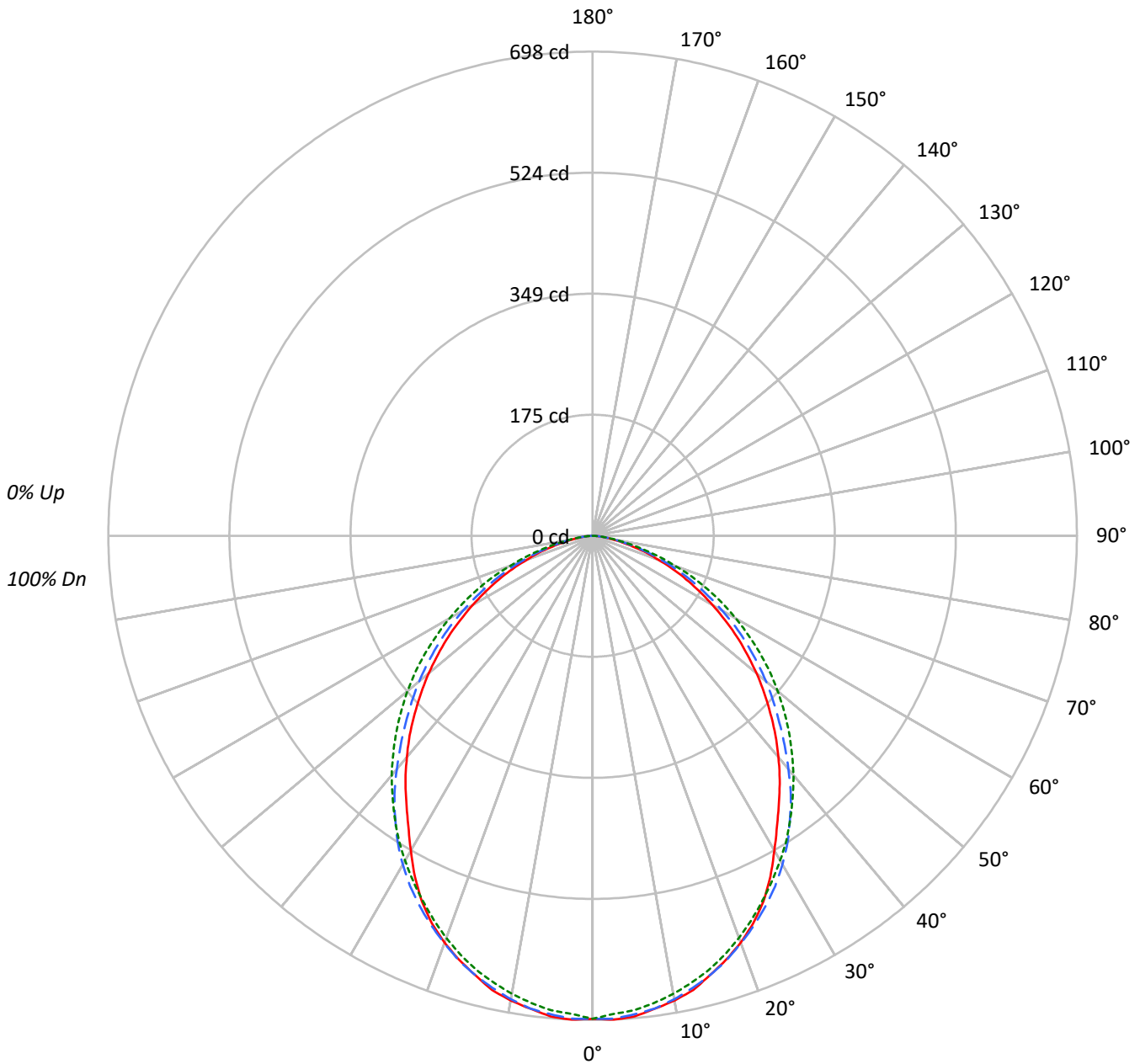
Lumens per Lamp: N/A
Luminaire Lumens: 1610.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P553974

CATALOG NUMBER: FUSL-12-2-LD4-1HI-40-UNV-80-87-EDD-90

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°	3747	3747	3747
5°	3757	3741	3710
10°	3717	3707	3665
15°	3652	3652	3610
20°	3574	3579	3533
25°	3457	3499	3444
30°	3255	3401	3360
35°	3075	3260	3265
40°	2926	3084	3165
45°	2759	2897	3046
50°	2582	2730	2916
55°	2382	2540	2759
60°	2145	2317	2565
65°	1894	2060	2333
70°	1578	1755	1983
75°	1241	1402	1551
80°	886	986	1094
85°	580	580	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	4.1
10°-20°	184.2	11.4
20°-30°	269.1	16.7
30°-40°	305.5	19.0
40°-50°	294.9	18.3
50°-60°	243.3	15.1
60°-70°	162.0	10.1
70°-80°	72.5	4.5
80°-90°	13.0	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°	518.9	32.2
0°-40°	824.4	51.2
0°-60°	1362.5	84.6
0°-90°	1610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	696	695	692	689	687	66
15°	655	657	655	652	648	185
25°	582	587	589	585	580	267
35°	468	474	496	499	497	293
45°	362	369	381	398	400	280
55°	254	258	271	286	294	227
65°	149	153	162	173	183	147
75°	60	63	67	71	75	65
85°	9	9	9	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.3	696.3	696.3	696.3	696.3
2.5°	698.2	698.4	696.8	692.5	689.9
5°	695.5	695.2	692.5	688.8	686.7
7.5°	687.7	688.3	687.5	682.1	679.2
10°	680.2	680.5	678.4	674.1	670.6
12.5°	670.6	670.3	667.4	665.3	659.6
15°	655.4	657.0	655.4	652.4	647.9
17.5°	640.6	640.6	641.7	636.6	633.2
20°	624.1	624.9	624.9	620.9	616.8
22.5°	604.8	607.2	608.0	603.7	598.9
25°	582.1	586.6	589.3	585.0	579.9
27.5°	554.5	561.5	569.5	566.3	560.7
30°	523.8	533.9	547.3	544.6	540.6
32.5°	494.6	504.8	523.2	522.1	520.0
35°	468.1	474.5	496.2	498.9	497.0
37.5°	443.0	448.9	469.2	475.3	473.7
40°	416.5	422.9	439.0	449.9	450.5
42.5°	390.3	396.4	409.5	425.3	425.3
45°	362.5	368.6	380.6	398.0	400.2
47.5°	335.2	341.6	353.4	370.7	374.2
50°	308.4	314.3	326.1	342.9	348.3
52.5°	280.6	287.0	298.5	314.0	321.8
55°	253.9	258.1	270.7	285.7	294.0
57.5°	226.0	230.0	244.2	257.1	265.6
60°	199.3	204.4	215.3	228.4	238.3
62.5°	173.6	179.0	188.3	199.8	211.1
65°	148.7	152.7	161.8	173.3	183.2
67.5°	124.7	128.1	137.2	145.2	155.7
70°	100.3	104.9	111.5	119.3	126.0
72.5°	80.8	82.7	88.3	93.9	100.8
75°	59.7	62.9	67.4	70.6	74.6
77.5°	42.8	44.7	47.3	50.0	53.8
80°	28.6	29.4	31.8	32.4	35.3
82.5°	17.4	17.9	18.5	18.7	19.8
85°	9.4	9.4	9.4	8.8	8.8
87.5°	5.3	5.3	4.5	3.7	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)