

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: P554998

Luminaire Tested: **FUSL-12-2-LD4-2LO-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: P554998
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-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

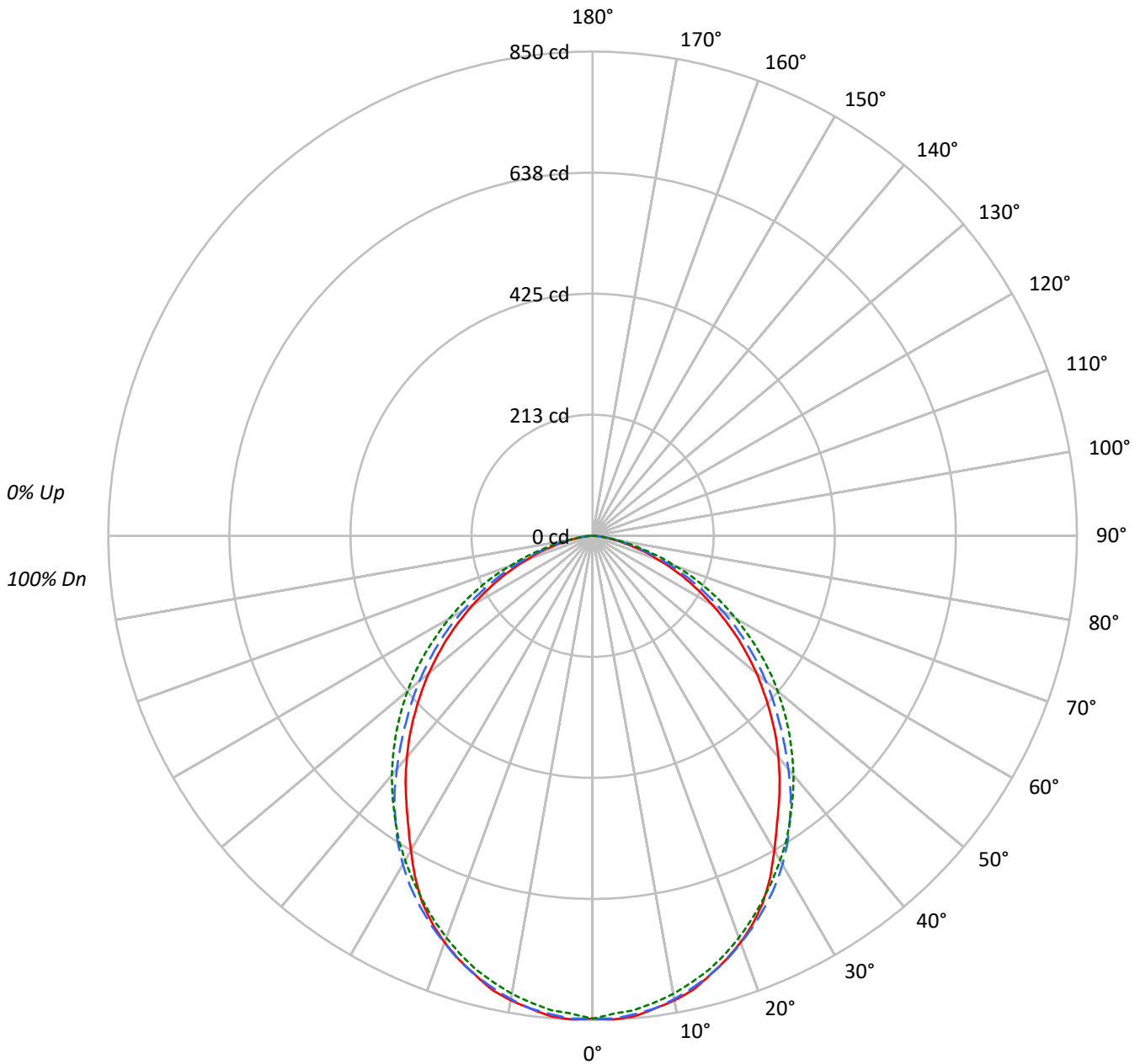
Lumens per Lamp: N/A
Luminaire Lumens: 1960.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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°	4562	4562	4562
5°	4574	4555	4516
10°	4526	4513	4462
15°	4445	4445	4394
20°	4351	4357	4301
25°	4208	4260	4192
30°	3962	4141	4090
35°	3744	3969	3975
40°	3562	3755	3853
45°	3358	3527	3708
50°	3144	3324	3550
55°	2899	3093	3358
60°	2611	2821	3123
65°	2306	2509	2841
70°	1921	2137	2414
75°	1510	1707	1890
80°	1079	1203	1333
85°	704	704	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	4.1
10°-20°	224.2	11.4
20°-30°	327.6	16.7
30°-40°	371.9	19.0
40°-50°	359.0	18.3
50°-60°	296.2	15.1
60°-70°	197.2	10.1
70°-80°	88.3	4.5
80°-90°	15.8	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°	631.6	32.2
0°-40°	1003.6	51.2
0°-60°	1658.7	84.6
0°-90°	1960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	847	846	843	838	836	80
15°	798	800	798	794	789	225
25°	709	714	717	712	706	325
35°	570	578	604	607	605	357
45°	441	449	463	485	487	340
55°	309	314	330	348	358	276
65°	181	186	197	211	223	180
75°	73	76	82	86	91	79
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°	847.6	847.6	847.6	847.6	847.6
2.5°	849.9	850.3	848.3	843.1	839.8
5°	846.7	846.3	843.1	838.5	835.9
7.5°	837.2	837.9	836.9	830.4	826.8
10°	828.1	828.4	825.8	820.6	816.4
12.5°	816.4	816.1	812.5	809.9	803.0
15°	797.8	799.8	797.8	794.2	788.7
17.5°	779.9	779.9	781.2	775.0	770.8
20°	759.7	760.7	760.7	755.8	750.9
22.5°	736.3	739.2	740.2	735.0	729.1
25°	708.6	714.1	717.4	712.2	706.0
27.5°	675.1	683.5	693.3	689.4	682.5
30°	637.6	650.0	666.3	663.0	658.1
32.5°	602.1	614.5	637.0	635.7	633.1
35°	569.9	577.7	604.1	607.3	605.0
37.5°	539.3	546.4	571.2	578.7	576.7
40°	507.0	514.8	534.4	547.7	548.4
42.5°	475.1	482.6	498.6	517.8	517.8
45°	441.2	448.7	463.4	484.6	487.2
47.5°	408.0	415.8	430.2	451.3	455.6
50°	375.5	382.6	397.0	417.5	424.0
52.5°	341.6	349.4	363.4	382.3	391.7
55°	309.0	314.2	329.6	347.8	357.9
57.5°	275.2	280.1	297.3	312.9	323.4
60°	242.6	248.8	262.1	278.1	290.1
62.5°	211.3	217.9	229.3	243.3	256.9
65°	181.1	185.9	197.0	211.0	223.1
67.5°	151.7	156.0	167.1	176.8	189.5
70°	122.1	127.7	135.8	145.2	153.4
72.5°	98.3	100.6	107.5	114.3	122.8
75°	72.6	76.5	82.1	86.0	90.9
77.5°	52.1	54.4	57.6	60.9	65.5
80°	34.8	35.8	38.8	39.4	43.0
82.5°	21.2	21.8	22.5	22.8	24.1
85°	11.4	11.4	11.4	10.7	10.7
87.5°	6.5	6.5	5.5	4.6	3.3
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)