

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: P553858

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-81-85-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: P553858
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-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

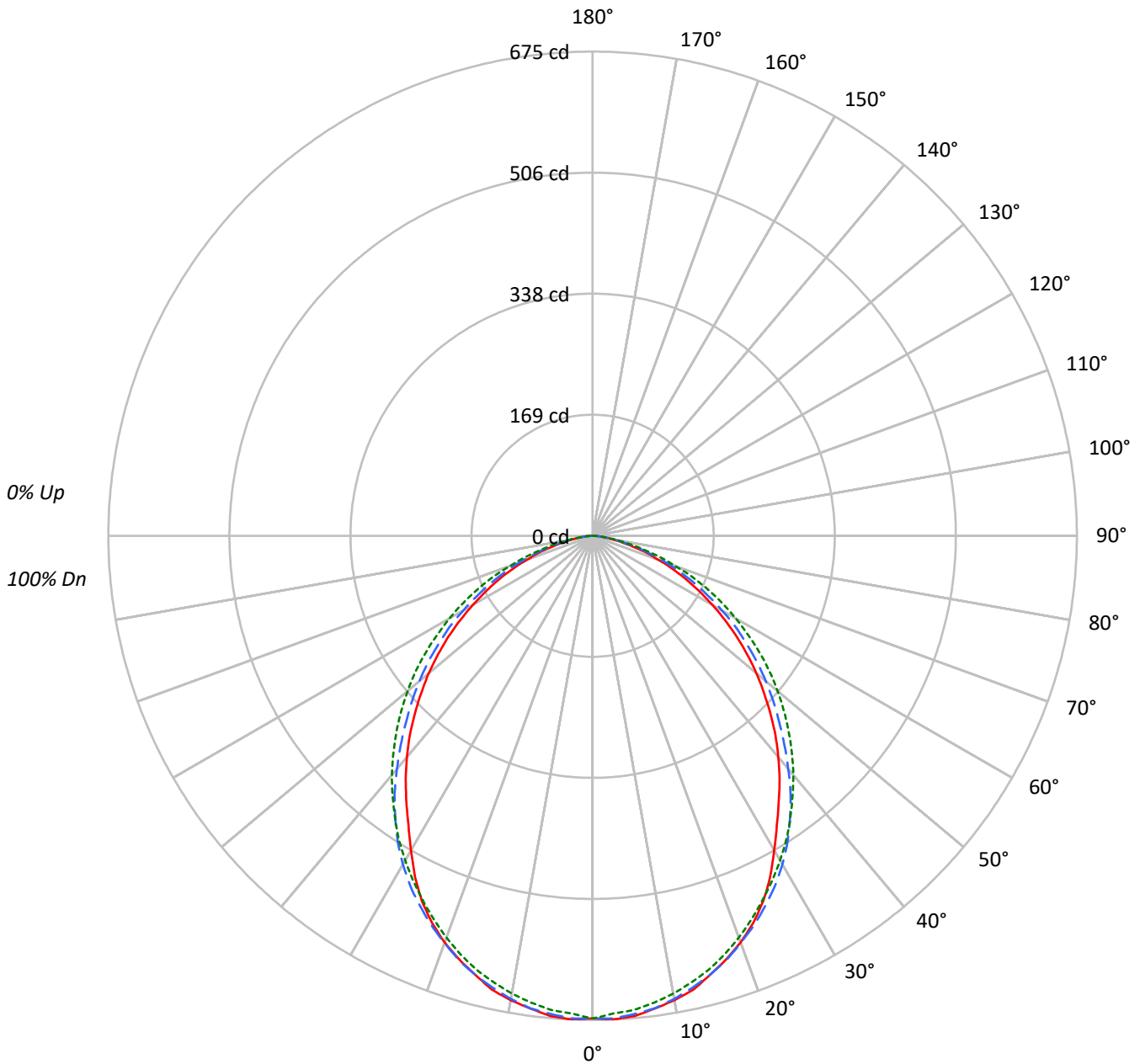
Lumens per Lamp: N/A
Luminaire Lumens: 1556.0 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P553858

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-81-85-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°	3622	3622	3622
5°	3632	3616	3585
10°	3593	3583	3542
15°	3529	3529	3489
20°	3454	3459	3414
25°	3340	3382	3328
30°	3146	3287	3247
35°	2972	3151	3156
40°	2828	2980	3058
45°	2666	2800	2943
50°	2496	2638	2818
55°	2302	2455	2666
60°	2073	2240	2479
65°	1830	1992	2255
70°	1525	1696	1917
75°	1200	1354	1499
80°	859	955	1057
85°	556	556	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	4.1
10°-20°	178.0	11.4
20°-30°	260.1	16.7
30°-40°	295.2	19.0
40°-50°	285.0	18.3
50°-60°	235.1	15.1
60°-70°	156.6	10.1
70°-80°	70.1	4.5
80°-90°	12.5	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°	501.4	32.2
0°-40°	796.7	51.2
0°-60°	1316.8	84.6
0°-90°	1556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	672	672	669	666	664	64
15°	633	635	633	630	626	179
25°	562	567	570	565	560	258
35°	452	459	480	482	480	283
45°	350	356	368	385	387	270
55°	245	250	262	276	284	219
65°	144	148	156	168	177	143
75°	58	61	65	68	72	63
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	672.9	672.9	672.9	672.9	672.9
2.5°	674.7	675.0	673.4	669.3	666.7
5°	672.2	671.9	669.3	665.7	663.6
7.5°	664.7	665.2	664.4	659.2	656.4
10°	657.4	657.7	655.6	651.5	648.1
12.5°	648.1	647.9	645.0	642.9	637.5
15°	633.4	634.9	633.4	630.5	626.1
17.5°	619.2	619.2	620.2	615.3	611.9
20°	603.1	603.9	603.9	600.0	596.1
22.5°	584.5	586.8	587.6	583.5	578.8
25°	562.5	566.9	569.5	565.4	560.5
27.5°	535.9	542.6	550.4	547.3	541.9
30°	506.2	516.0	528.9	526.3	522.5
32.5°	478.0	487.8	505.7	504.6	502.6
35°	452.4	458.6	479.6	482.1	480.3
37.5°	428.1	433.8	453.4	459.4	457.8
40°	402.5	408.7	424.2	434.8	435.3
42.5°	377.2	383.1	395.8	411.0	411.0
45°	350.3	356.2	367.9	384.7	386.7
47.5°	323.9	330.1	341.5	358.3	361.7
50°	298.1	303.8	315.1	331.4	336.6
52.5°	271.2	277.4	288.5	303.5	311.0
55°	245.3	249.5	261.6	276.1	284.1
57.5°	218.5	222.3	236.0	248.4	256.7
60°	192.6	197.5	208.1	220.8	230.3
62.5°	167.8	173.0	182.0	193.1	204.0
65°	143.7	147.6	156.4	167.5	177.1
67.5°	120.5	123.8	132.6	140.4	150.5
70°	96.9	101.3	107.8	115.3	121.8
72.5°	78.1	79.9	85.3	90.7	97.5
75°	57.7	60.8	65.1	68.2	72.1
77.5°	41.4	43.2	45.8	48.3	52.0
80°	27.7	28.4	30.8	31.3	34.1
82.5°	16.8	17.3	17.8	18.1	19.1
85°	9.0	9.0	9.0	8.5	8.5
87.5°	5.2	5.2	4.4	3.6	2.6
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)