

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: P554584

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-82-88-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: P554584
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-LD4-1STD-50-UNV-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

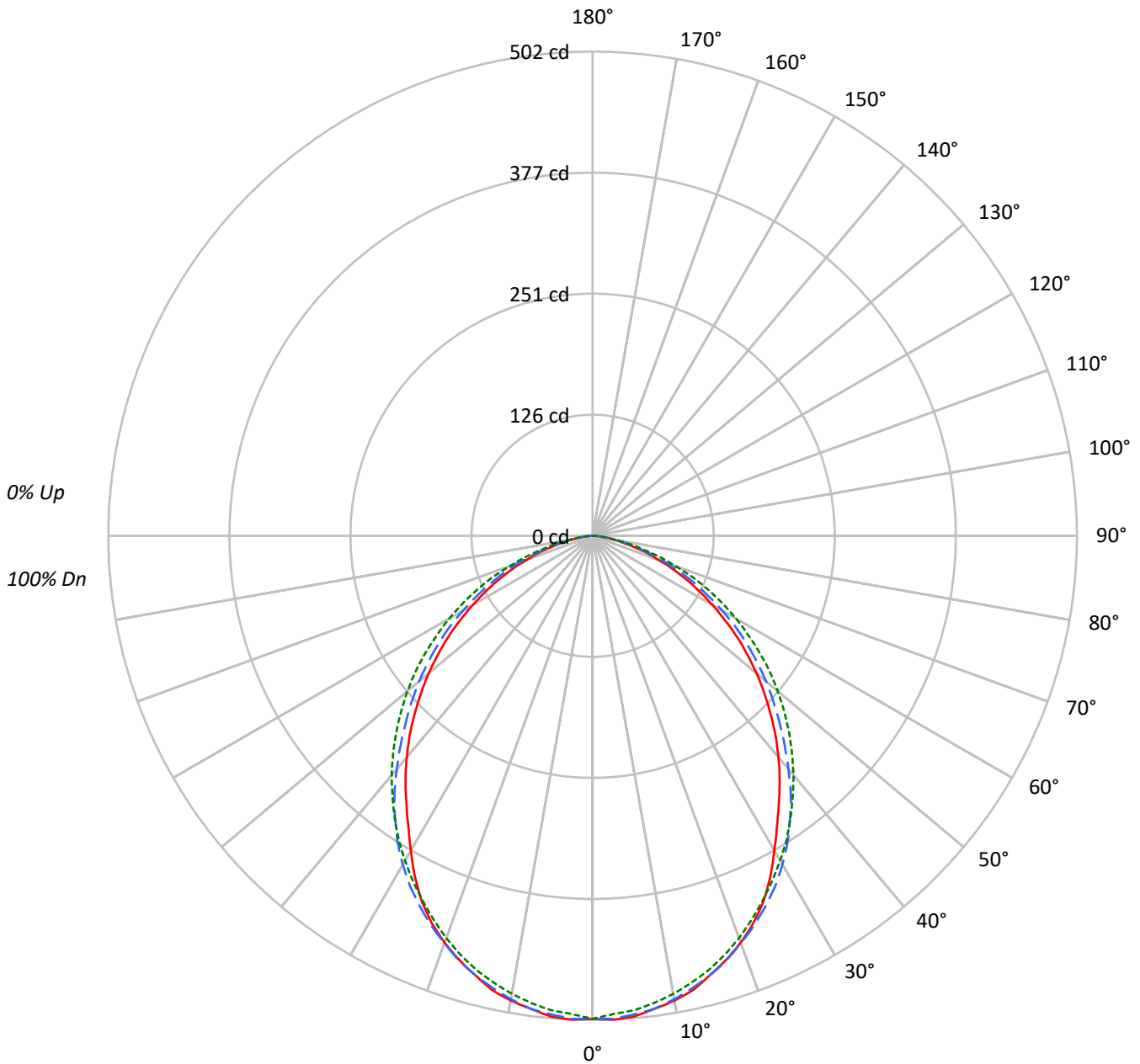
Lumens per Lamp: N/A
Luminaire Lumens: 1158.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2695	2695	2695
5°	2702	2691	2668
10°	2674	2666	2636
15°	2627	2627	2596
20°	2571	2574	2541
25°	2486	2517	2477
30°	2341	2446	2416
35°	2212	2345	2349
40°	2105	2218	2276
45°	1984	2084	2191
50°	1857	1963	2097
55°	1713	1827	1984
60°	1542	1667	1845
65°	1363	1482	1678
70°	1135	1262	1426
75°	892	1009	1117
80°	638	710	787
85°	414	414	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	4.1
10°-20°	132.5	11.4
20°-30°	193.6	16.7
30°-40°	219.7	19.0
40°-50°	212.1	18.3
50°-60°	175.0	15.1
60°-70°	116.5	10.1
70°-80°	52.1	4.5
80°-90°	9.3	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°	373.2	32.2
0°-40°	592.9	51.2
0°-60°	980.0	84.6
0°-90°	1158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	501	501	501	501	501	
5°	500	500	498	495	494	47
15°	471	472	471	469	466	133
25°	419	422	424	421	417	192
35°	337	341	357	359	358	211
45°	261	265	274	286	288	201
55°	183	186	195	206	211	163
65°	107	110	116	125	132	106
75°	43	45	48	51	54	47
85°	7	7	7	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	500.8	500.8	500.8	500.8	500.8
2.5°	502.2	502.3	501.2	498.1	496.2
5°	500.2	500.0	498.1	495.4	493.9
7.5°	494.6	495.0	494.5	490.6	488.5
10°	489.3	489.5	487.9	484.8	482.3
12.5°	482.3	482.1	480.0	478.5	474.4
15°	471.4	472.5	471.4	469.3	466.0
17.5°	460.8	460.8	461.6	457.9	455.4
20°	448.9	449.4	449.4	446.5	443.7
22.5°	435.0	436.7	437.3	434.2	430.8
25°	418.7	421.9	423.8	420.8	417.1
27.5°	398.8	403.8	409.6	407.3	403.3
30°	376.7	384.0	393.6	391.7	388.8
32.5°	355.7	363.1	376.3	375.6	374.0
35°	336.7	341.3	356.9	358.8	357.5
37.5°	318.6	322.8	337.5	341.9	340.7
40°	299.6	304.2	315.7	323.6	324.0
42.5°	280.7	285.1	294.6	305.9	305.9
45°	260.7	265.1	273.8	286.3	287.8
47.5°	241.1	245.7	254.2	266.7	269.2
50°	221.8	226.1	234.5	246.7	250.5
52.5°	201.8	206.4	214.7	225.9	231.5
55°	182.6	185.7	194.7	205.5	211.4
57.5°	162.6	165.5	175.7	184.9	191.0
60°	143.3	147.0	154.9	164.3	171.4
62.5°	124.9	128.7	135.4	143.7	151.8
65°	107.0	109.9	116.4	124.7	131.8
67.5°	89.7	92.2	98.7	104.5	112.0
70°	72.1	75.4	80.2	85.8	90.6
72.5°	58.1	59.5	63.5	67.5	72.5
75°	42.9	45.2	48.5	50.8	53.7
77.5°	30.8	32.1	34.1	36.0	38.7
80°	20.6	21.2	22.9	23.3	25.4
82.5°	12.5	12.9	13.3	13.5	14.2
85°	6.7	6.7	6.7	6.3	6.3
87.5°	3.8	3.8	3.3	2.7	1.9
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)