

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: P555074

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-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: P555074
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-50-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

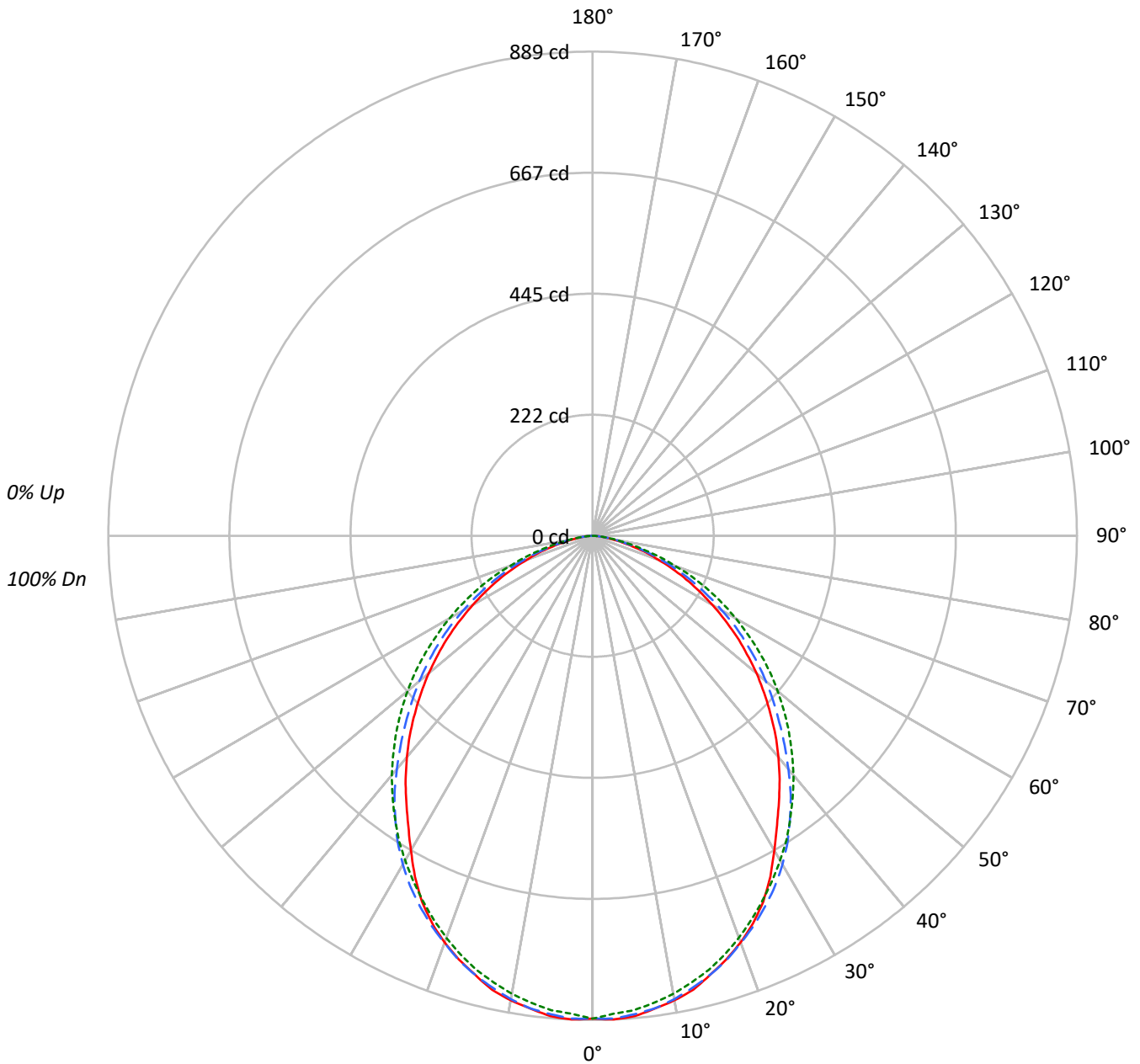
Lumens per Lamp: N/A
Luminaire Lumens: 2050.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4772	4772	4772
5°	4784	4764	4723
10°	4733	4721	4667
15°	4650	4650	4596
20°	4551	4557	4498
25°	4401	4456	4385
30°	4144	4331	4277
35°	3916	4151	4158
40°	3726	3927	4030
45°	3513	3689	3878
50°	3288	3476	3713
55°	3033	3234	3512
60°	2731	2951	3267
65°	2412	2625	2971
70°	2009	2234	2524
75°	1580	1784	1975
80°	1128	1255	1395
85°	735	735	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	4.1
10°-20°	234.5	11.4
20°-30°	342.7	16.7
30°-40°	389.0	19.0
40°-50°	375.5	18.3
50°-60°	309.8	15.1
60°-70°	206.3	10.1
70°-80°	92.3	4.5
80°-90°	16.5	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°	660.7	32.2
0°-40°	1049.6	51.2
0°-60°	1734.9	84.6
0°-90°	2050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	886	885	882	877	874	84
15°	834	836	834	831	825	235
25°	741	747	750	745	738	339
35°	596	604	632	635	633	373
45°	462	469	485	507	510	356
55°	323	329	345	364	374	288
65°	189	194	206	221	233	188
75°	76	80	86	90	95	83
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.6	886.6	886.6	886.6	886.6
2.5°	889.0	889.3	887.3	881.8	878.4
5°	885.6	885.2	881.8	877.0	874.3
7.5°	875.7	876.4	875.3	868.5	864.8
10°	866.1	866.5	863.8	858.3	853.9
12.5°	853.9	853.5	849.8	847.1	839.9
15°	834.5	836.5	834.5	830.7	824.9
17.5°	815.7	815.7	817.1	810.6	806.2
20°	794.6	795.6	795.6	790.5	785.4
22.5°	770.1	773.2	774.2	768.7	762.6
25°	741.1	746.9	750.3	744.9	738.4
27.5°	706.1	714.9	725.1	721.0	713.9
30°	666.9	679.8	696.9	693.5	688.3
32.5°	629.8	642.7	666.2	664.8	662.1
35°	596.0	604.2	631.8	635.2	632.8
37.5°	564.0	571.5	597.4	605.2	603.2
40°	530.3	538.5	558.9	572.9	573.6
42.5°	496.9	504.8	521.5	541.5	541.5
45°	461.5	469.3	484.7	506.8	509.5
47.5°	426.8	434.9	449.9	472.1	476.5
50°	392.7	400.2	415.2	436.6	443.5
52.5°	357.3	365.5	380.1	399.9	409.7
55°	323.2	328.7	344.7	363.8	374.3
57.5°	287.8	292.9	311.0	327.3	338.2
60°	253.7	260.2	274.2	290.9	303.5
62.5°	221.0	227.9	239.8	254.4	268.7
65°	189.4	194.5	206.1	220.7	233.3
67.5°	158.7	163.1	174.7	184.9	198.2
70°	127.7	133.5	142.0	151.9	160.4
72.5°	102.9	105.2	112.4	119.5	128.4
75°	76.0	80.0	85.8	89.9	95.0
77.5°	54.5	56.9	60.3	63.7	68.5
80°	36.4	37.5	40.5	41.2	45.0
82.5°	22.1	22.8	23.5	23.8	25.2
85°	11.9	11.9	11.9	11.2	11.2
87.5°	6.8	6.8	5.8	4.8	3.4
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)