

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: P554585

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-82-88-EDD**

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: P554585
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
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

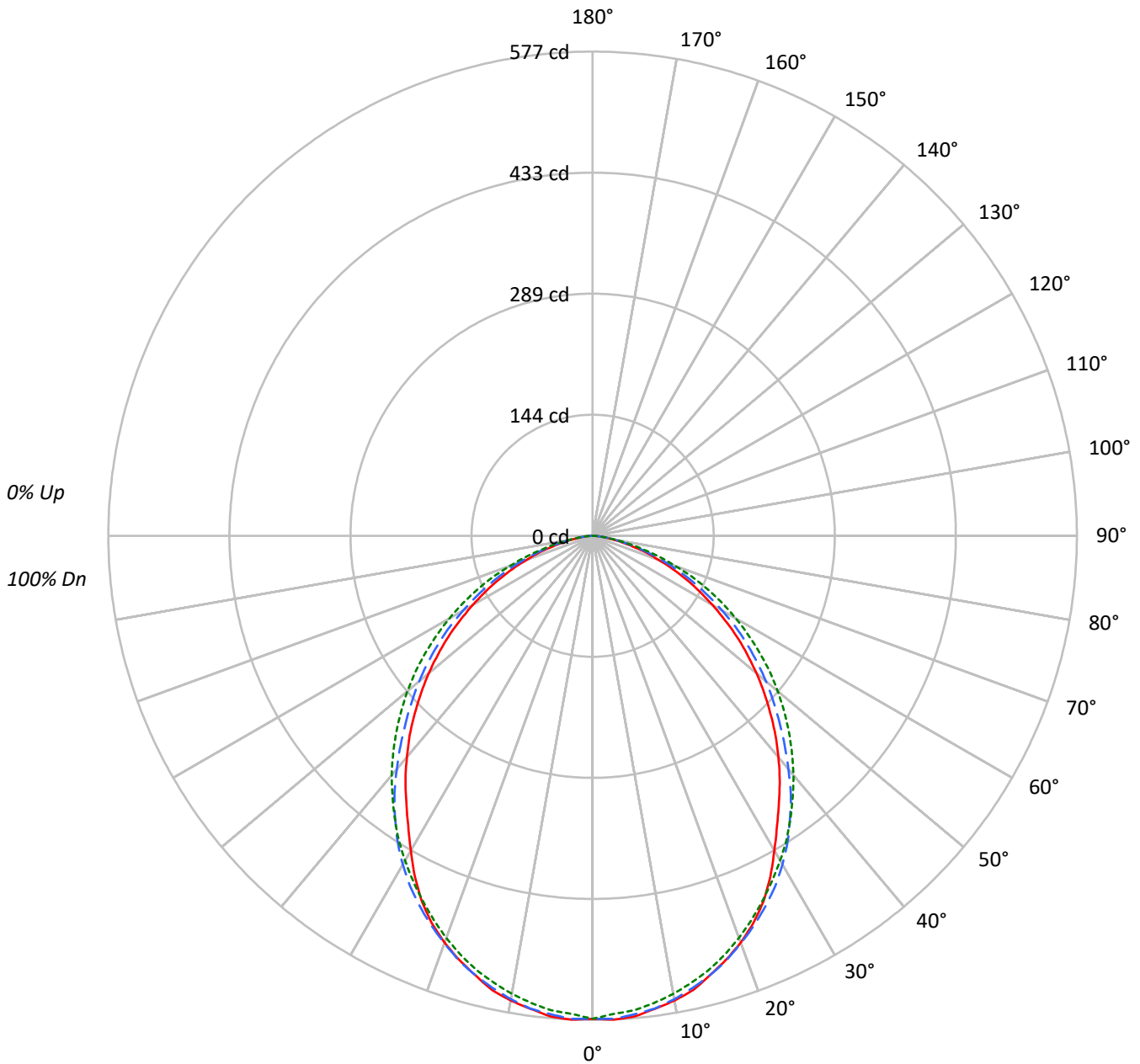
Lumens per Lamp: N/A
Luminaire Lumens: 1331.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P554585

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-82-88-EDD

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°	3098	3098	3098
5°	3106	3093	3067
10°	3074	3065	3030
15°	3019	3019	2984
20°	2955	2959	2920
25°	2858	2893	2847
30°	2691	2811	2777
35°	2543	2695	2700
40°	2419	2550	2616
45°	2280	2395	2518
50°	2135	2257	2411
55°	1970	2100	2280
60°	1773	1916	2120
65°	1566	1704	1929
70°	1304	1451	1640
75°	1025	1158	1283
80°	735	815	905
85°	475	475	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	4.1
10°-20°	152.3	11.4
20°-30°	222.5	16.7
30°-40°	252.6	19.0
40°-50°	243.8	18.3
50°-60°	201.1	15.1
60°-70°	133.9	10.1
70°-80°	59.9	4.5
80°-90°	10.7	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°	428.9	32.2
0°-40°	681.5	51.2
0°-60°	1126.4	84.6
0°-90°	1331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	575	575	572	569	568	54
15°	542	543	542	539	536	153
25°	481	485	487	484	479	220
35°	387	392	410	412	411	242
45°	300	305	315	329	331	231
55°	210	213	224	236	243	187
65°	123	126	134	143	152	122
75°	49	52	56	58	62	54
85°	8	8	8	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	575.6	575.6	575.6	575.6	575.6
2.5°	577.2	577.4	576.1	572.5	570.3
5°	575.0	574.7	572.5	569.4	567.7
7.5°	568.5	569.0	568.3	563.9	561.5
10°	562.4	562.6	560.8	557.3	554.4
12.5°	554.4	554.2	551.7	550.0	545.3
15°	541.8	543.1	541.8	539.4	535.6
17.5°	529.6	529.6	530.5	526.3	523.4
20°	515.9	516.6	516.6	513.3	509.9
22.5°	500.0	502.0	502.6	499.1	495.1
25°	481.2	485.0	487.2	483.6	479.4
27.5°	458.4	464.2	470.8	468.1	463.5
30°	433.0	441.4	452.4	450.2	446.9
32.5°	408.9	417.3	432.5	431.7	429.9
35°	387.0	392.3	410.2	412.4	410.9
37.5°	366.2	371.1	387.9	393.0	391.6
40°	344.3	349.6	362.9	372.0	372.4
42.5°	322.6	327.7	338.6	351.6	351.6
45°	299.6	304.7	314.7	329.1	330.8
47.5°	277.1	282.4	292.1	306.5	309.4
50°	255.0	259.8	269.6	283.5	287.9
52.5°	232.0	237.3	246.8	259.6	266.0
55°	209.9	213.4	223.8	236.2	243.0
57.5°	186.9	190.2	201.9	212.5	219.6
60°	164.7	168.9	178.0	188.9	197.0
62.5°	143.5	147.9	155.7	165.2	174.5
65°	123.0	126.3	133.8	143.3	151.5
67.5°	103.1	105.9	113.4	120.1	128.7
70°	82.9	86.7	92.2	98.6	104.2
72.5°	66.8	68.3	73.0	77.6	83.4
75°	49.3	52.0	55.7	58.4	61.7
77.5°	35.4	36.9	39.1	41.4	44.4
80°	23.7	24.3	26.3	26.8	29.2
82.5°	14.4	14.8	15.3	15.5	16.4
85°	7.7	7.7	7.7	7.3	7.3
87.5°	4.4	4.4	3.8	3.1	2.2
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)