

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: P557917

Luminaire Tested: **FUSL-12-4-LD4-3HI-50-UNV-82-96-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: P557917
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-12-4-LD4-3HI-50-UNV-82-96-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

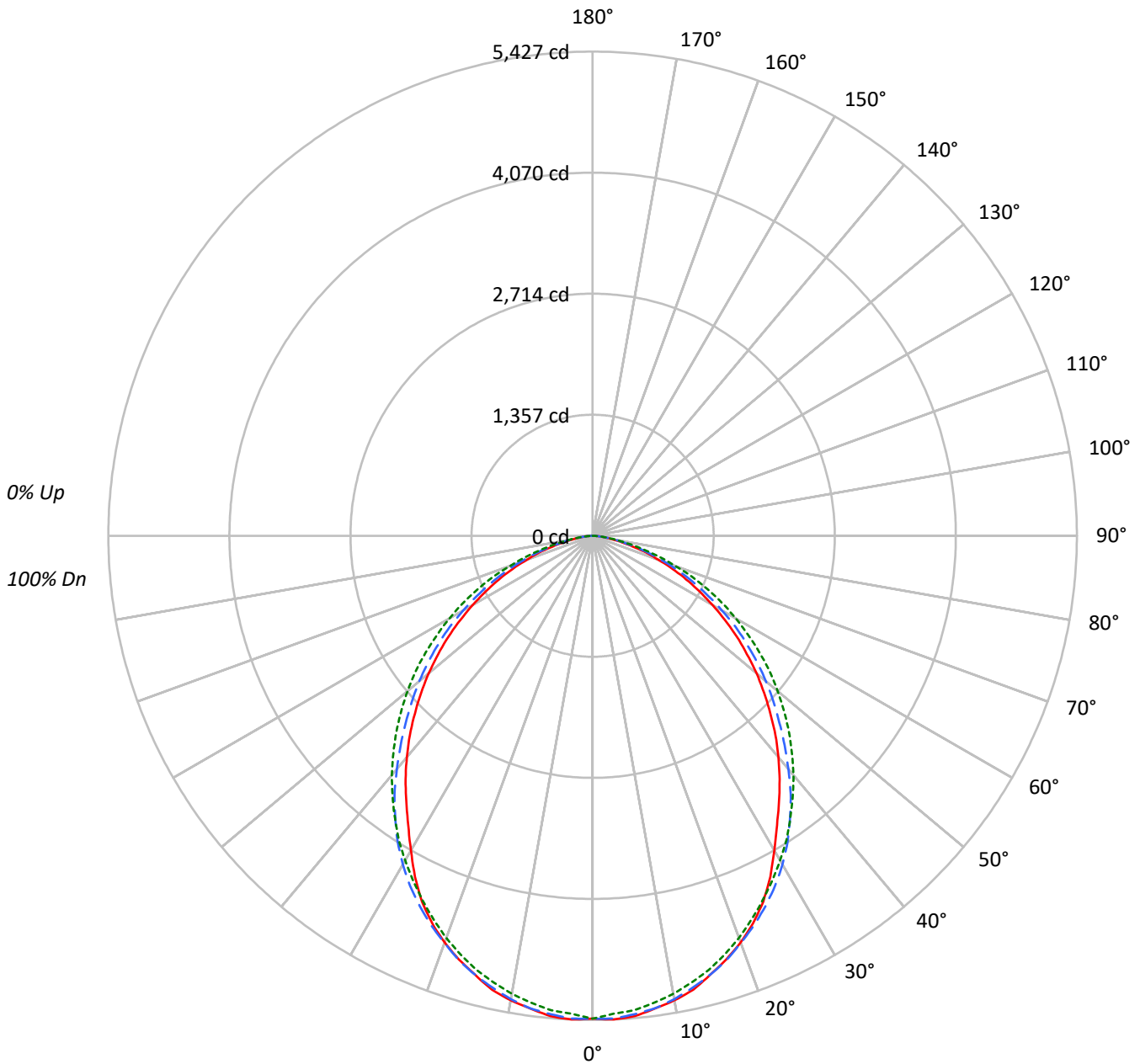
Lumens per Lamp: N/A
Luminaire Lumens: 12515.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P557917

CATALOG NUMBER: FUSL-12-4-LD4-3HI-50-UNV-82-96-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°	14565	14565	14565
5°	14604	14542	14418
10°	14449	14409	14244
15°	14192	14192	14030
20°	13892	13909	13731
25°	13434	13601	13385
30°	12651	13219	13058
35°	11954	12671	12691
40°	11373	11986	12300
45°	10722	11260	11838
50°	10037	10611	11333
55°	9258	9872	10721
60°	8337	9008	9971
65°	7361	8010	9069
70°	6135	6822	7705
75°	4821	5448	6031
80°	3448	3834	4254
85°	2248	2248	2118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.6	4.1
10°-20°	1431.6	11.4
20°-30°	2092.0	16.7
30°-40°	2374.7	19.0
40°-50°	2292.4	18.3
50°-60°	1891.1	15.1
60°-70°	1259.3	10.1
70°-80°	563.5	4.5
80°-90°	100.8	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°	4033.2	32.2
0°-40°	6407.9	51.2
0°-60°	10591.4	84.6
0°-90°	12515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5412	5412	5412	5412	5412	
5°	5406	5404	5383	5354	5338	512
15°	5094	5107	5094	5071	5036	1436
25°	4525	4560	4581	4547	4508	2072
35°	3639	3689	3857	3878	3863	2280
45°	2817	2865	2959	3094	3111	2174
55°	1973	2006	2104	2221	2285	1761
65°	1156	1187	1258	1347	1424	1146
75°	464	489	524	549	580	507
85°	73	73	73	69	69	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5412.4	5412.4	5412.4	5412.4	5412.4
2.5°	5427.0	5429.0	5416.6	5383.3	5362.5
5°	5406.2	5404.1	5383.3	5354.2	5337.6
7.5°	5345.9	5350.0	5343.8	5302.2	5279.3
10°	5287.7	5289.7	5273.1	5239.8	5212.8
12.5°	5212.8	5210.7	5187.9	5171.2	5127.6
15°	5094.3	5106.8	5094.3	5071.4	5036.1
17.5°	4979.9	4979.9	4988.2	4948.7	4921.7
20°	4851.0	4857.2	4857.2	4826.1	4794.9
22.5°	4701.3	4720.0	4726.2	4693.0	4655.5
25°	4524.6	4559.9	4580.7	4547.4	4507.9
27.5°	4310.4	4364.4	4426.8	4401.9	4358.2
30°	4071.3	4150.3	4254.2	4233.5	4202.3
32.5°	3844.6	3923.6	4067.1	4058.8	4042.2
35°	3638.8	3688.7	3857.1	3877.9	3863.3
37.5°	3443.3	3489.1	3647.1	3694.9	3682.4
40°	3237.5	3287.4	3412.1	3497.4	3501.5
42.5°	3033.7	3081.5	3183.4	3306.1	3306.1
45°	2817.4	2865.3	2958.8	3094.0	3110.6
47.5°	2605.4	2655.3	2746.8	2881.9	2908.9
50°	2397.4	2443.2	2534.7	2665.7	2707.2
52.5°	2181.2	2231.1	2320.5	2441.1	2501.4
55°	1973.3	2006.5	2104.3	2220.7	2285.1
57.5°	1757.0	1788.2	1898.4	1998.2	2064.7
60°	1549.1	1588.6	1673.8	1775.7	1852.7
62.5°	1349.5	1391.1	1463.8	1553.2	1640.6
65°	1156.1	1187.3	1258.0	1347.4	1424.3
67.5°	969.0	996.0	1066.7	1129.1	1210.2
70°	779.7	815.1	867.1	927.4	979.3
72.5°	627.9	642.5	686.2	729.8	783.9
75°	463.7	488.6	524.0	548.9	580.1
77.5°	332.7	347.2	368.0	388.8	417.9
80°	222.5	228.7	247.4	251.6	274.5
82.5°	135.2	139.3	143.5	145.6	153.9
85°	72.8	72.8	72.8	68.6	68.6
87.5°	41.6	41.6	35.3	29.1	20.8
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)