

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: P557879

Luminaire Tested: **FUSL-12-4-LD4-3HI-50-UNV-80-87-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: P557879
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-80-87-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

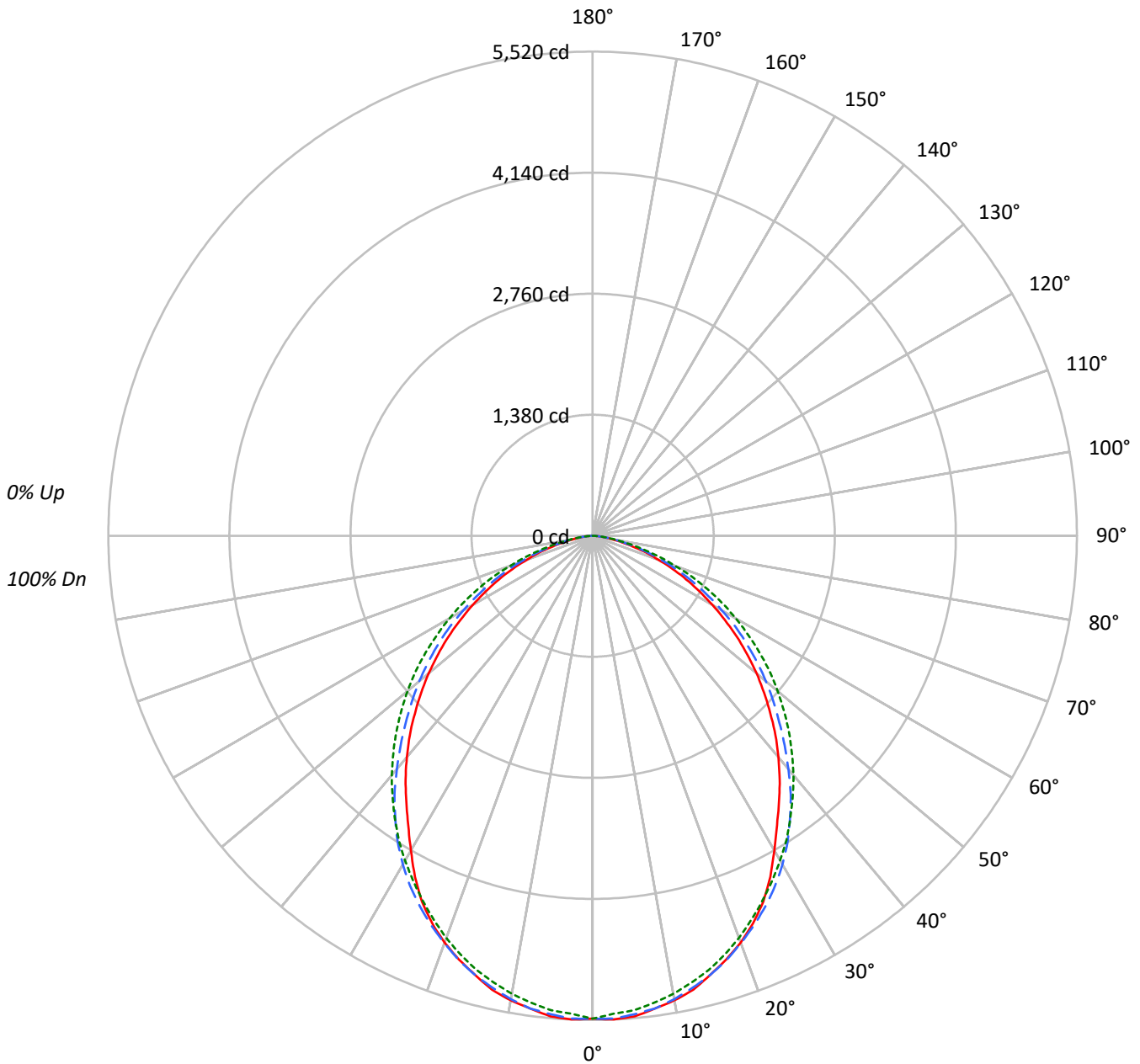
Lumens per Lamp: N/A
Luminaire Lumens: 12730.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
Input Voltage (V): NR
Input Current (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°	14815	14815	14815
5°	14854	14792	14666
10°	14697	14656	14489
15°	14436	14436	14271
20°	14130	14149	13967
25°	13665	13835	13615
30°	12868	13446	13282
35°	12159	12889	12909
40°	11568	12192	12512
45°	10907	11454	12041
50°	10209	10793	11529
55°	9417	10042	10905
60°	8480	9163	10142
65°	7488	8148	9225
70°	6240	6939	7838
75°	4903	5542	6135
80°	3507	3901	4327
85°	2285	2285	2155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.3	4.1
10°-20°	1456.2	11.4
20°-30°	2128.0	16.7
30°-40°	2415.5	19.0
40°-50°	2331.8	18.3
50°-60°	1923.6	15.1
60°-70°	1280.9	10.1
70°-80°	573.2	4.5
80°-90°	102.5	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°	4102.5	32.2
0°-40°	6518.0	51.2
0°-60°	10773.3	84.6
0°-90°	12730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5505	5505	5505	5505	5505	
5°	5499	5497	5476	5446	5429	520
15°	5182	5194	5182	5158	5123	1461
25°	4602	4638	4659	4626	4585	2108
35°	3701	3752	3923	3944	3930	2319
45°	2866	2914	3010	3147	3164	2211
55°	2007	2041	2140	2259	2324	1791
65°	1176	1208	1280	1370	1449	1166
75°	472	497	533	558	590	516
85°	74	74	74	70	70	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5505.4	5505.4	5505.4	5505.4	5505.4
2.5°	5520.2	5522.3	5509.6	5475.8	5454.6
5°	5499.1	5496.9	5475.8	5446.2	5429.3
7.5°	5437.7	5441.9	5435.6	5393.3	5370.0
10°	5378.5	5380.6	5363.7	5329.8	5302.4
12.5°	5302.4	5300.2	5277.0	5260.1	5215.6
15°	5181.8	5194.5	5181.8	5158.5	5122.6
17.5°	5065.5	5065.5	5073.9	5033.7	5006.3
20°	4934.3	4940.7	4940.7	4909.0	4877.2
22.5°	4782.1	4801.1	4807.4	4773.6	4735.5
25°	4602.3	4638.2	4659.4	4625.5	4585.4
27.5°	4384.4	4439.4	4502.9	4477.5	4433.1
30°	4141.2	4221.6	4327.3	4306.2	4274.5
32.5°	3910.7	3991.0	4137.0	4128.5	4111.6
35°	3701.3	3752.0	3923.4	3944.5	3929.7
37.5°	3502.5	3549.0	3709.7	3758.4	3745.7
40°	3293.1	3343.8	3470.7	3557.5	3561.7
42.5°	3085.8	3134.5	3238.1	3362.9	3362.9
45°	2865.9	2914.5	3009.7	3147.1	3164.1
47.5°	2650.1	2700.9	2793.9	2931.4	2958.9
50°	2438.6	2485.1	2578.2	2711.5	2753.8
52.5°	2218.7	2269.4	2360.4	2483.0	2544.4
55°	2007.2	2041.0	2140.4	2258.8	2324.4
57.5°	1787.2	1818.9	1931.0	2032.5	2100.2
60°	1575.7	1615.9	1702.6	1806.2	1884.5
62.5°	1372.6	1414.9	1489.0	1579.9	1668.8
65°	1176.0	1207.7	1279.6	1370.5	1448.8
67.5°	985.6	1013.1	1085.0	1148.5	1230.9
70°	793.1	829.1	882.0	943.3	996.2
72.5°	638.7	653.5	698.0	742.4	797.4
75°	471.6	497.0	533.0	558.4	590.1
77.5°	338.4	353.2	374.4	395.5	425.1
80°	226.3	232.7	251.7	255.9	279.2
82.5°	137.5	141.7	145.9	148.1	156.5
85°	74.0	74.0	74.0	69.8	69.8
87.5°	42.3	42.3	36.0	29.6	21.2
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)