

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: P557758

Luminaire Tested: **FUSL-12-4-LD4-3HI-35-UNV-80-97-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: P557758
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-35-UNV-80-97-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

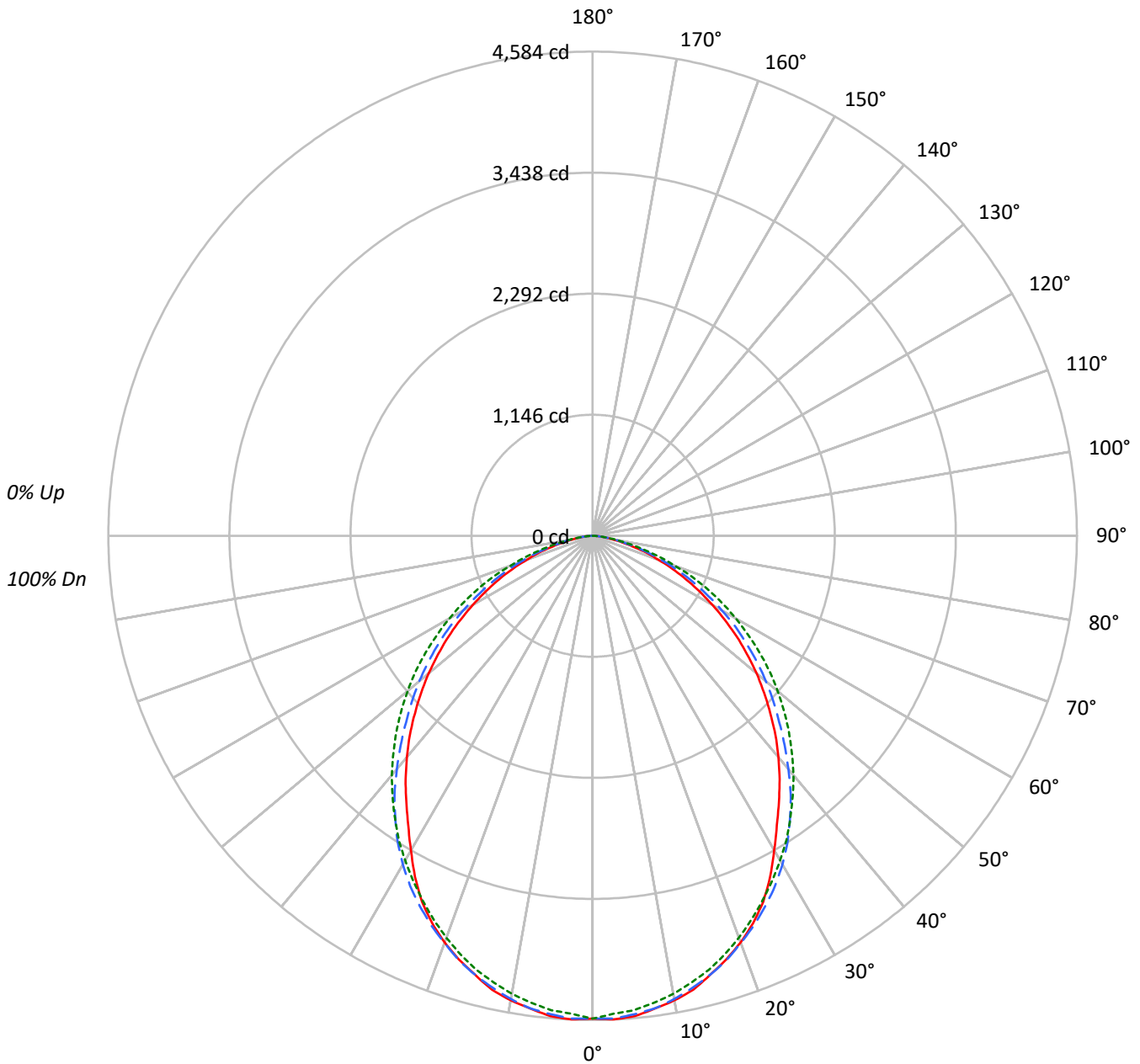
Lumens per Lamp: N/A
Luminaire Lumens: 10570.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	12301	12301	12301
5°	12334	12282	12177
10°	12203	12169	12030
15°	11987	11987	11850
20°	11733	11748	11597
25°	11346	11487	11305
30°	10684	11165	11028
35°	10096	10702	10719
40°	9605	10123	10389
45°	9056	9510	9998
50°	8477	8962	9572
55°	7819	8338	9055
60°	7041	7608	8421
65°	6217	6765	7660
70°	5182	5762	6508
75°	4072	4601	5095
80°	2912	3239	3592
85°	1899	1899	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.4	4.1
10°-20°	1209.1	11.4
20°-30°	1766.9	16.7
30°-40°	2005.6	19.0
40°-50°	1936.1	18.3
50°-60°	1597.2	15.1
60°-70°	1063.6	10.1
70°-80°	475.9	4.5
80°-90°	85.2	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°	3406.4	32.2
0°-40°	5412.0	51.2
0°-60°	8945.3	84.6
0°-90°	10570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4571	4571	4571	4571	4571	
5°	4566	4564	4547	4522	4508	432
15°	4303	4313	4303	4283	4253	1213
25°	3821	3851	3869	3841	3807	1750
35°	3073	3115	3258	3275	3263	1926
45°	2380	2420	2499	2613	2627	1836
55°	1667	1695	1777	1876	1930	1487
65°	976	1003	1062	1138	1203	968
75°	392	413	442	464	490	428
85°	62	62	62	58	58	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4571.3	4571.3	4571.3	4571.3	4571.3
2.5°	4583.5	4585.3	4574.8	4546.7	4529.1
5°	4566.0	4564.2	4546.7	4522.1	4508.0
7.5°	4515.1	4518.6	4513.3	4478.2	4458.9
10°	4465.9	4467.6	4453.6	4425.5	4402.7
12.5°	4402.7	4400.9	4381.6	4367.5	4330.7
15°	4302.6	4313.1	4302.6	4283.2	4253.4
17.5°	4206.0	4206.0	4213.0	4179.6	4156.8
20°	4097.1	4102.4	4102.4	4076.0	4049.7
22.5°	3970.6	3986.5	3991.7	3963.6	3932.0
25°	3821.4	3851.2	3868.8	3840.7	3807.3
27.5°	3640.5	3686.2	3738.8	3717.8	3680.9
30°	3438.5	3505.3	3593.1	3575.5	3549.2
32.5°	3247.1	3313.9	3435.0	3428.0	3414.0
35°	3073.3	3115.4	3257.7	3275.2	3262.9
37.5°	2908.2	2946.8	3080.3	3120.7	3110.1
40°	2734.3	2776.5	2881.8	2953.8	2957.4
42.5°	2562.2	2602.6	2688.7	2792.3	2792.3
45°	2379.6	2420.0	2499.0	2613.1	2627.2
47.5°	2200.5	2242.6	2319.9	2434.0	2456.9
50°	2024.8	2063.5	2140.7	2251.4	2286.5
52.5°	1842.2	1884.3	1959.9	2061.7	2112.6
55°	1666.6	1694.7	1777.2	1875.6	1930.0
57.5°	1483.9	1510.3	1603.4	1687.7	1743.9
60°	1308.3	1341.7	1413.7	1499.7	1564.7
62.5°	1139.7	1174.9	1236.3	1311.8	1385.6
65°	976.4	1002.8	1062.5	1138.0	1203.0
67.5°	818.4	841.2	900.9	953.6	1022.1
70°	658.6	688.4	732.3	783.2	827.1
72.5°	530.4	542.6	579.5	616.4	662.1
75°	391.6	412.7	442.5	463.6	490.0
77.5°	281.0	293.3	310.8	328.4	353.0
80°	187.9	193.2	209.0	212.5	231.8
82.5°	114.1	117.7	121.2	122.9	130.0
85°	61.5	61.5	61.5	58.0	58.0
87.5°	35.1	35.1	29.9	24.6	17.6
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)