

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: P557751

Luminaire Tested: **FUSL-12-4-LD4-3HI-35-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: P557751
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-80-87-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

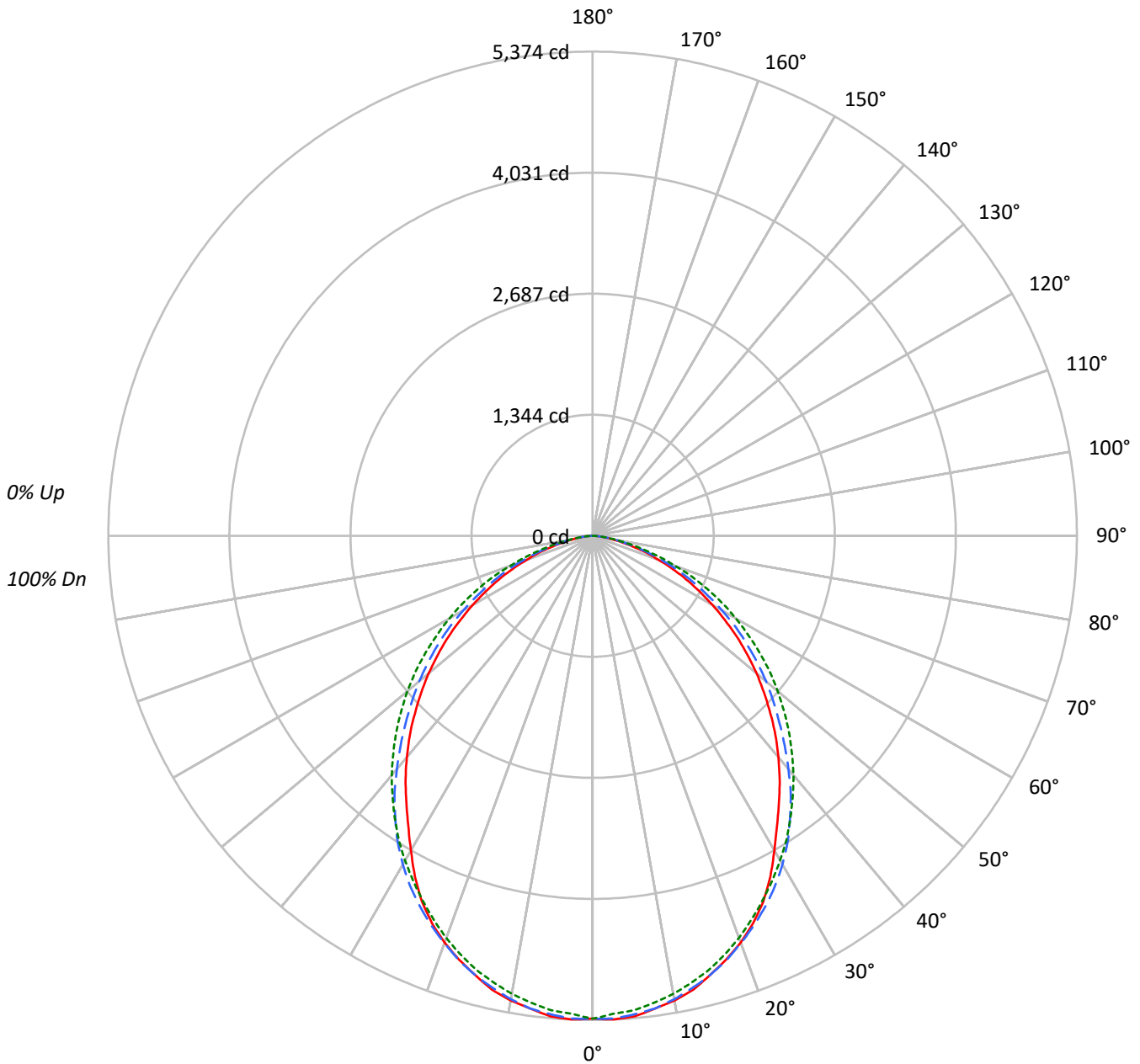
Lumens per Lamp: N/A
Luminaire Lumens: 12394.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
Input Voltage (V): NR
Input Current (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°	14424	14424	14424
5°	14462	14401	14279
10°	14309	14269	14106
15°	14055	14055	13894
20°	13757	13775	13598
25°	13304	13469	13255
30°	12528	13091	12931
35°	11838	12548	12569
40°	11263	11870	12181
45°	10618	11151	11724
50°	9940	10509	11224
55°	9168	9777	10618
60°	8256	8922	9874
65°	7290	7933	8981
70°	6076	6756	7631
75°	4774	5395	5973
80°	3414	3797	4212
85°	2226	2226	2100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.7	4.1
10°-20°	1417.8	11.4
20°-30°	2071.8	16.7
30°-40°	2351.7	19.0
40°-50°	2270.2	18.3
50°-60°	1872.8	15.1
60°-70°	1247.1	10.1
70°-80°	558.1	4.5
80°-90°	99.8	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°	3994.2	32.2
0°-40°	6346.0	51.2
0°-60°	10489.0	84.6
0°-90°	12394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5360	5360	5360	5360	5360	
5°	5354	5352	5331	5302	5286	507
15°	5045	5057	5045	5022	4987	1422
25°	4481	4516	4536	4504	4464	2052
35°	3604	3653	3820	3840	3826	2258
45°	2790	2838	2930	3064	3081	2153
55°	1954	1987	2084	2199	2263	1744
65°	1145	1176	1246	1334	1410	1135
75°	459	484	519	544	574	502
85°	72	72	72	68	68	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5360.1	5360.1	5360.1	5360.1	5360.1
2.5°	5374.5	5376.6	5364.2	5331.3	5310.7
5°	5353.9	5351.8	5331.3	5302.4	5286.0
7.5°	5294.2	5298.3	5292.1	5250.9	5228.3
10°	5236.5	5238.6	5222.1	5189.2	5162.4
12.5°	5162.4	5160.3	5137.7	5121.2	5078.0
15°	5045.0	5057.4	5045.0	5022.4	4987.4
17.5°	4931.8	4931.8	4940.0	4900.9	4874.1
20°	4804.1	4810.3	4810.3	4779.4	4748.5
22.5°	4655.8	4674.4	4680.6	4647.6	4610.5
25°	4480.8	4515.8	4536.4	4503.5	4464.3
27.5°	4268.7	4322.3	4384.0	4359.3	4316.1
30°	4031.9	4110.2	4213.1	4192.5	4161.6
32.5°	3807.5	3885.7	4027.8	4019.5	4003.1
35°	3603.6	3653.0	3819.8	3840.4	3826.0
37.5°	3410.0	3455.3	3611.8	3659.2	3646.8
40°	3206.2	3255.6	3379.1	3463.6	3467.7
42.5°	3004.4	3051.7	3152.6	3274.1	3274.1
45°	2790.2	2837.6	2930.2	3064.1	3080.6
47.5°	2580.2	2629.6	2720.2	2854.0	2880.8
50°	2374.3	2419.6	2510.2	2639.9	2681.1
52.5°	2160.1	2209.5	2298.1	2417.5	2477.2
55°	1954.2	1987.1	2083.9	2199.2	2263.1
57.5°	1740.0	1770.9	1880.0	1978.9	2044.8
60°	1534.1	1573.2	1657.7	1758.6	1834.7
62.5°	1336.4	1377.6	1449.7	1538.2	1624.7
65°	1144.9	1175.8	1245.8	1334.4	1410.5
67.5°	959.6	986.4	1056.4	1118.1	1198.5
70°	772.2	807.2	858.7	918.4	969.9
72.5°	621.9	636.3	679.5	722.8	776.3
75°	459.2	483.9	518.9	543.6	574.5
77.5°	329.5	343.9	364.5	385.1	413.9
80°	220.3	226.5	245.0	249.2	271.8
82.5°	133.8	138.0	142.1	144.1	152.4
85°	72.1	72.1	72.1	68.0	68.0
87.5°	41.2	41.2	35.0	28.8	20.6
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)