

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: P557873

Luminaire Tested: **FUSL-12-4-LD4-3HI-50-UNV-80-84-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: P557873
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-80-84-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

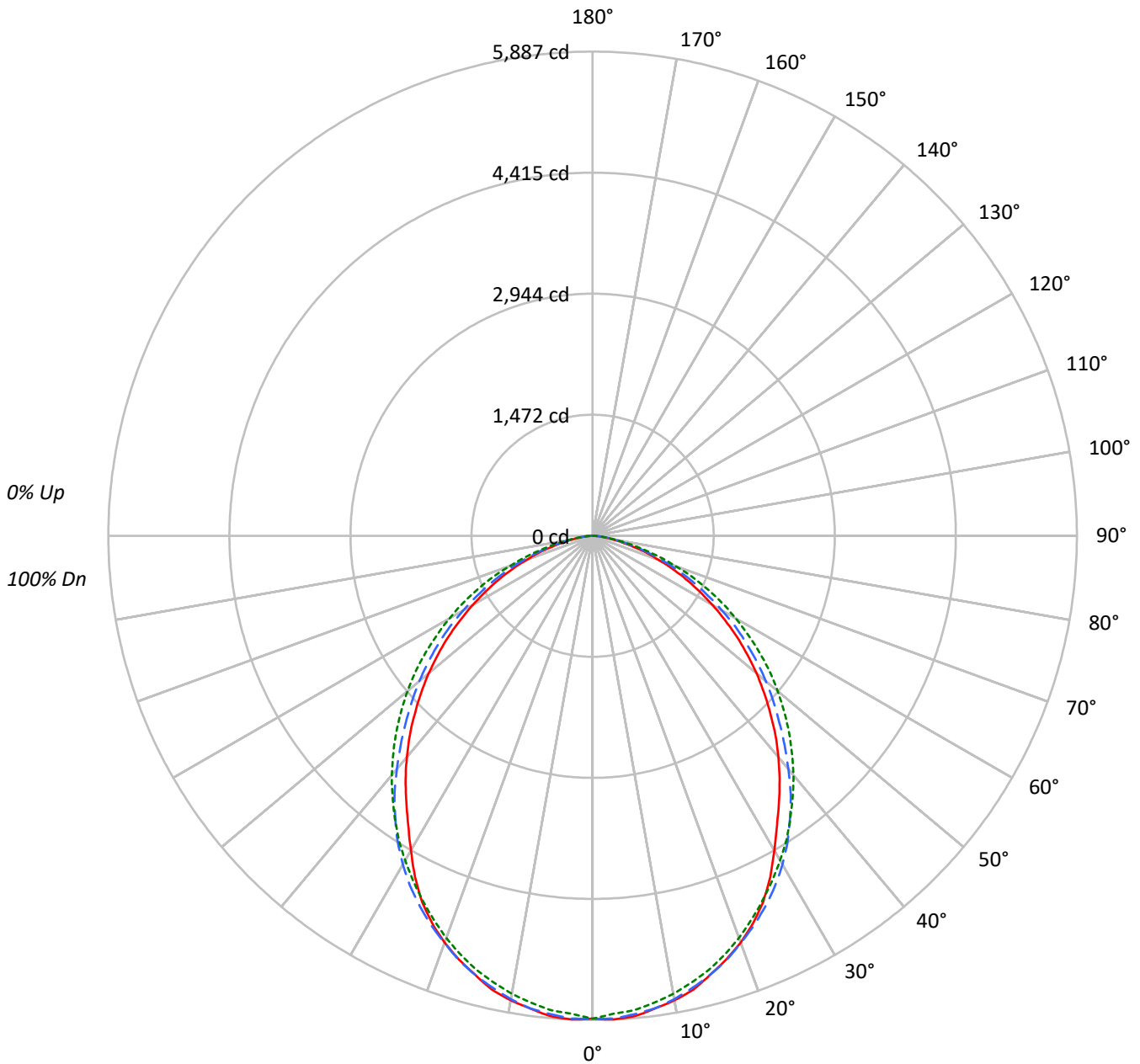
Lumens per Lamp: N/A
Luminaire Lumens: 13576.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	15800	15800	15800
5°	15842	15775	15641
10°	15673	15630	15451
15°	15395	15395	15219
20°	15070	15089	14895
25°	14573	14754	14520
30°	13723	14340	14165
35°	12967	13745	13767
40°	12337	13002	13343
45°	11631	12215	12841
50°	10888	11511	12295
55°	10042	10709	11630
60°	9044	9772	10816
65°	7985	8689	9838
70°	6655	7401	8359
75°	5230	5910	6543
80°	3739	4159	4613
85°	2436	2436	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.8	4.1
10°-20°	1553.0	11.4
20°-30°	2269.4	16.7
30°-40°	2576.0	19.0
40°-50°	2486.7	18.3
50°-60°	2051.4	15.1
60°-70°	1366.1	10.1
70°-80°	611.3	4.5
80°-90°	109.3	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°	4375.2	32.2
0°-40°	6951.2	51.2
0°-60°	11489.3	84.6
0°-90°	13576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5871	5871	5871	5871	5871	
5°	5864	5862	5840	5808	5790	555
15°	5526	5540	5526	5501	5463	1558
25°	4908	4946	4969	4933	4890	2248
35°	3947	4001	4184	4207	4191	2473
45°	3056	3108	3210	3356	3374	2358
55°	2140	2177	2283	2409	2479	1911
65°	1254	1288	1365	1462	1545	1244
75°	503	530	568	596	629	550
85°	79	79	79	74	74	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5871.3	5871.3	5871.3	5871.3	5871.3
2.5°	5887.1	5889.3	5875.8	5839.7	5817.1
5°	5864.5	5862.2	5839.7	5808.1	5790.1
7.5°	5799.1	5803.6	5796.8	5751.7	5726.9
10°	5735.9	5738.2	5720.1	5684.1	5654.7
12.5°	5654.7	5652.5	5627.7	5609.6	5562.3
15°	5526.2	5539.7	5526.2	5501.4	5463.0
17.5°	5402.1	5402.1	5411.1	5368.3	5339.0
20°	5262.3	5269.0	5269.0	5235.2	5201.4
22.5°	5099.9	5120.2	5126.9	5090.8	5050.2
25°	4908.1	4946.5	4969.0	4932.9	4890.1
27.5°	4675.8	4734.5	4802.1	4775.1	4727.7
30°	4416.4	4502.1	4614.9	4592.4	4558.5
32.5°	4170.6	4256.3	4411.9	4402.9	4384.8
35°	3947.3	4001.4	4184.1	4206.7	4190.9
37.5°	3735.2	3784.9	3956.3	4008.2	3994.6
40°	3511.9	3566.1	3701.4	3793.9	3798.4
42.5°	3290.9	3342.8	3453.3	3586.4	3586.4
45°	3056.3	3108.2	3209.7	3356.3	3374.3
47.5°	2826.2	2880.4	2979.6	3126.2	3155.6
50°	2600.7	2650.3	2749.5	2891.7	2936.8
52.5°	2366.1	2420.2	2517.2	2648.0	2713.5
55°	2140.5	2176.6	2282.6	2409.0	2478.9
57.5°	1906.0	1939.8	2059.3	2167.6	2239.8
60°	1680.4	1723.3	1815.7	1926.3	2009.7
62.5°	1463.9	1509.0	1587.9	1684.9	1779.7
65°	1254.1	1287.9	1364.6	1461.6	1545.1
67.5°	1051.1	1080.4	1157.1	1224.8	1312.7
70°	845.8	884.2	940.6	1006.0	1062.4
72.5°	681.2	697.0	744.3	791.7	850.4
75°	503.0	530.1	568.4	595.5	629.3
77.5°	360.9	376.7	399.2	421.8	453.4
80°	241.3	248.1	268.4	272.9	297.7
82.5°	146.6	151.1	155.6	157.9	166.9
85°	78.9	78.9	78.9	74.4	74.4
87.5°	45.1	45.1	38.3	31.6	22.6
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)