

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: P554085

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-93-86-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: P554085
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-12-2-LD4-1HI-50-UNV-93-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

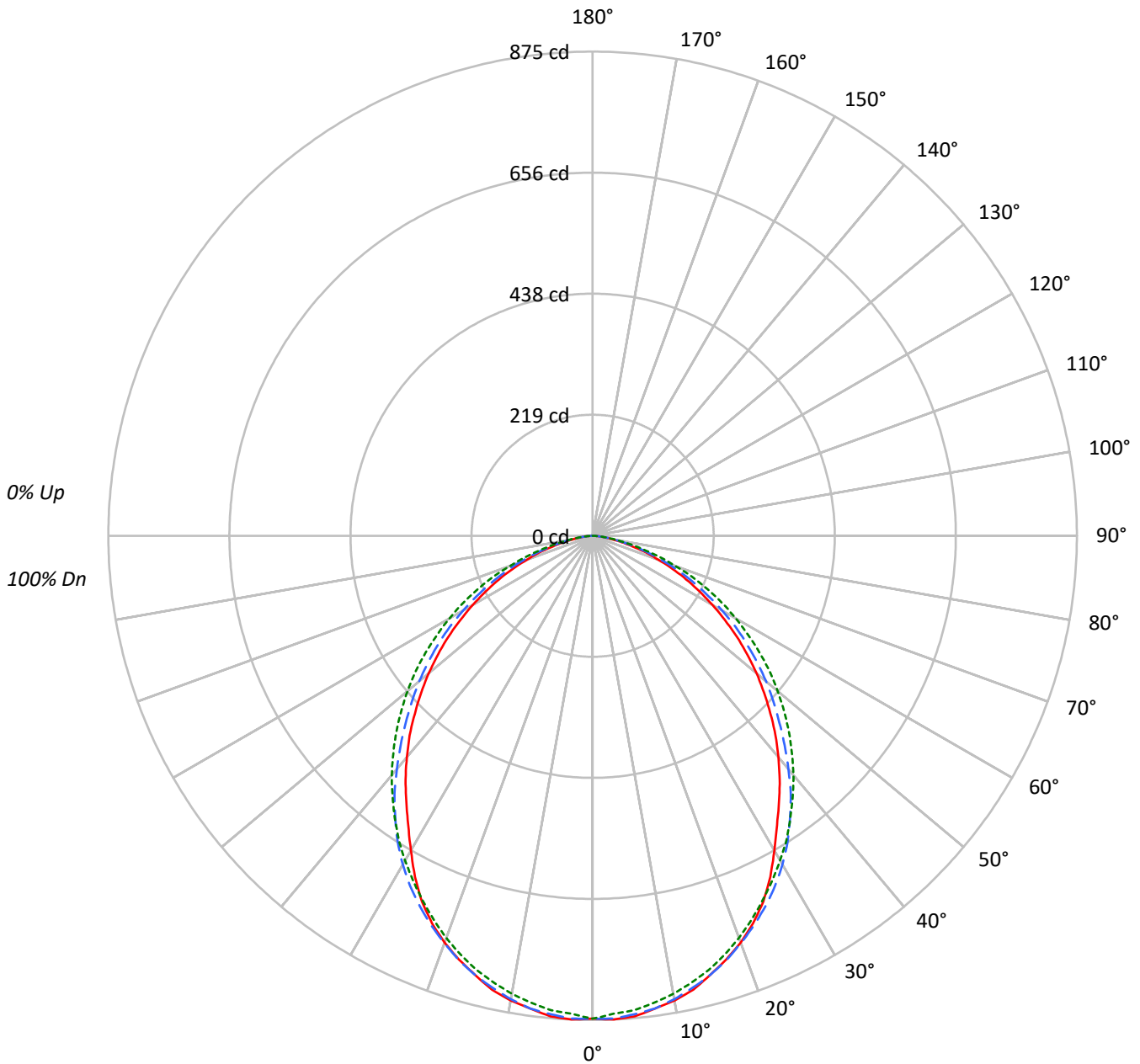
Lumens per Lamp: N/A
Luminaire Lumens: 2018.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	4697	4697	4697
5°	4709	4689	4650
10°	4659	4647	4593
15°	4577	4577	4524
20°	4480	4486	4428
25°	4333	4386	4317
30°	4080	4263	4211
35°	3855	4086	4093
40°	3667	3866	3967
45°	3458	3631	3818
50°	3237	3422	3655
55°	2986	3184	3458
60°	2689	2905	3215
65°	2374	2583	2925
70°	1978	2200	2485
75°	1555	1757	1944
80°	1113	1237	1373
85°	722	722	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	4.1
10°-20°	230.8	11.4
20°-30°	337.3	16.7
30°-40°	382.9	19.0
40°-50°	369.6	18.3
50°-60°	304.9	15.1
60°-70°	203.1	10.1
70°-80°	90.9	4.5
80°-90°	16.3	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°	650.3	32.2
0°-40°	1033.3	51.2
0°-60°	1707.8	84.6
0°-90°	2018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	872	871	868	863	861	83
15°	821	823	821	818	812	232
25°	730	735	739	733	727	334
35°	587	595	622	625	623	368
45°	454	462	477	499	502	351
55°	318	324	339	358	368	284
65°	186	191	203	217	230	185
75°	75	79	84	88	94	82
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	872.7	872.7	872.7	872.7	872.7
2.5°	875.1	875.4	873.4	868.0	864.7
5°	871.7	871.4	868.0	863.3	860.7
7.5°	862.0	862.7	861.7	855.0	851.3
10°	852.6	853.0	850.3	844.9	840.5
12.5°	840.5	840.2	836.5	833.8	826.8
15°	821.4	823.4	821.4	817.7	812.0
17.5°	803.0	803.0	804.3	798.0	793.6
20°	782.2	783.2	783.2	778.2	773.2
22.5°	758.1	761.1	762.1	756.7	750.7
25°	729.6	735.3	738.6	733.3	726.9
27.5°	695.0	703.8	713.8	709.8	702.7
30°	656.5	669.2	686.0	682.6	677.6
32.5°	619.9	632.7	655.8	654.5	651.8
35°	586.7	594.8	621.9	625.3	622.9
37.5°	555.2	562.6	588.1	595.8	593.8
40°	522.0	530.1	550.2	563.9	564.6
42.5°	489.2	496.9	513.3	533.1	533.1
45°	454.3	462.0	477.1	498.9	501.6
47.5°	420.1	428.2	442.9	464.7	469.1
50°	386.6	394.0	408.7	429.8	436.5
52.5°	351.7	359.8	374.2	393.6	403.3
55°	318.2	323.5	339.3	358.1	368.5
57.5°	283.3	288.3	306.1	322.2	332.9
60°	249.8	256.2	269.9	286.3	298.7
62.5°	217.6	224.3	236.0	250.5	264.5
65°	186.4	191.4	202.8	217.3	229.7
67.5°	156.2	160.6	172.0	182.1	195.1
70°	125.7	131.4	139.8	149.5	157.9
72.5°	101.3	103.6	110.6	117.7	126.4
75°	74.8	78.8	84.5	88.5	93.5
77.5°	53.6	56.0	59.3	62.7	67.4
80°	35.9	36.9	39.9	40.6	44.3
82.5°	21.8	22.5	23.1	23.5	24.8
85°	11.7	11.7	11.7	11.1	11.1
87.5°	6.7	6.7	5.7	4.7	3.4
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)