

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: P554543

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-93-97-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: P554543
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-LD4-1STD-40-UNV-93-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

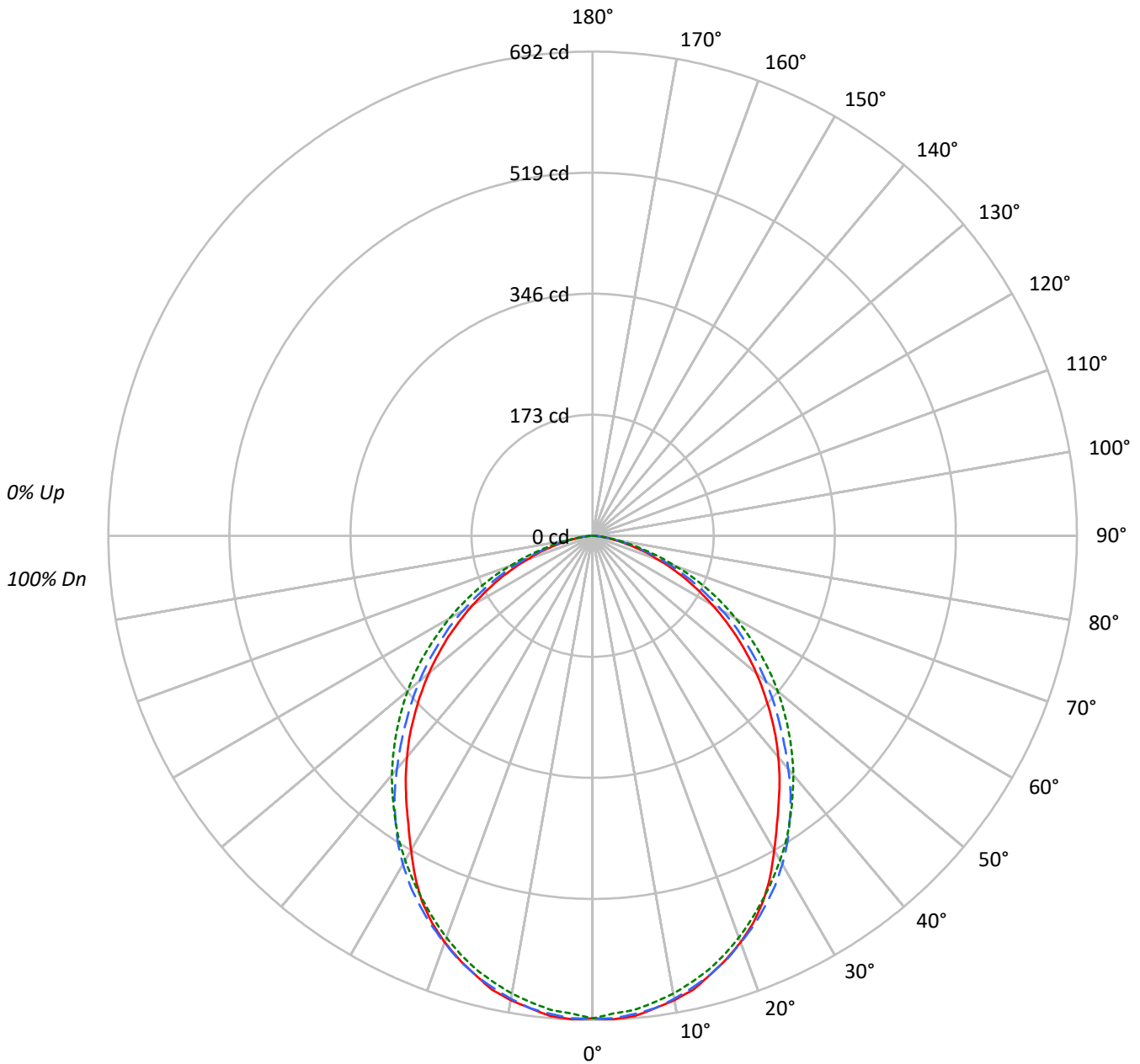
Lumens per Lamp: N/A
Luminaire Lumens: 1595.0 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3712	3712	3712
5°	3722	3707	3675
10°	3683	3672	3631
15°	3618	3618	3576
20°	3541	3545	3500
25°	3424	3467	3412
30°	3225	3370	3329
35°	3047	3230	3235
40°	2899	3055	3136
45°	2733	2870	3017
50°	2558	2704	2889
55°	2360	2517	2732
60°	2125	2296	2541
65°	1876	2041	2311
70°	1564	1739	1964
75°	1229	1389	1537
80°	880	976	1085
85°	574	574	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	4.1
10°-20°	182.5	11.4
20°-30°	266.6	16.7
30°-40°	302.6	19.0
40°-50°	292.2	18.3
50°-60°	241.0	15.1
60°-70°	160.5	10.1
70°-80°	71.8	4.5
80°-90°	12.9	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°	514.0	32.2
0°-40°	816.7	51.2
0°-60°	1349.8	84.6
0°-90°	1595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	689	689	686	682	680	65
15°	649	651	649	646	642	183
25°	577	581	584	580	574	264
35°	464	470	492	494	492	291
45°	359	365	377	394	396	277
55°	252	256	268	283	291	224
65°	147	151	160	172	182	146
75°	59	62	67	70	74	65
85°	9	9	9	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	689.8	689.8	689.8	689.8	689.8
2.5°	691.7	691.9	690.3	686.1	683.4
5°	689.0	688.7	686.1	682.4	680.3
7.5°	681.3	681.8	681.1	675.8	672.8
10°	673.9	674.2	672.0	667.8	664.4
12.5°	664.4	664.1	661.2	659.1	653.5
15°	649.3	650.8	649.3	646.3	641.8
17.5°	634.7	634.7	635.7	630.7	627.3
20°	618.2	619.0	619.0	615.1	611.1
22.5°	599.2	601.6	602.3	598.1	593.3
25°	576.6	581.1	583.8	579.6	574.5
27.5°	549.3	556.2	564.2	561.0	555.4
30°	518.9	528.9	542.2	539.5	535.6
32.5°	490.0	500.1	518.3	517.3	515.2
35°	463.8	470.1	491.6	494.2	492.4
37.5°	438.8	444.7	464.8	470.9	469.3
40°	412.6	419.0	434.9	445.7	446.3
42.5°	386.6	392.7	405.7	421.4	421.4
45°	359.1	365.2	377.1	394.3	396.4
47.5°	332.0	338.4	350.1	367.3	370.7
50°	305.5	311.4	323.0	339.7	345.0
52.5°	278.0	284.3	295.7	311.1	318.8
55°	251.5	255.7	268.2	283.0	291.2
57.5°	223.9	227.9	241.9	254.7	263.1
60°	197.4	202.5	213.3	226.3	236.1
62.5°	172.0	177.3	186.6	198.0	209.1
65°	147.3	151.3	160.3	171.7	181.5
67.5°	123.5	126.9	135.9	143.9	154.2
70°	99.4	103.9	110.5	118.2	124.8
72.5°	80.0	81.9	87.5	93.0	99.9
75°	59.1	62.3	66.8	70.0	73.9
77.5°	42.4	44.3	46.9	49.6	53.3
80°	28.4	29.2	31.5	32.1	35.0
82.5°	17.2	17.8	18.3	18.6	19.6
85°	9.3	9.3	9.3	8.7	8.7
87.5°	5.3	5.3	4.5	3.7	2.7
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)