

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: P307345

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CA08-W2A-U-5000K**

Issue Date: 3/3/2020

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: P307345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-29-UNV-L82765-RDP-CA08-W2A-U-5000K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC SHEET  
Light Source: (168) 5000K TUNABLE CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment:

<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
AS-5443-2	Good	REFLECTOR
AS-5443-3	Good	DRIVER
AS-5443-4	Good	UPPER MODULE
AS-5443-5	Good	LENS
AS-5443-6	Good	DRIVER 2
AS-5443-7	Good	TRIM RING

**Summary**

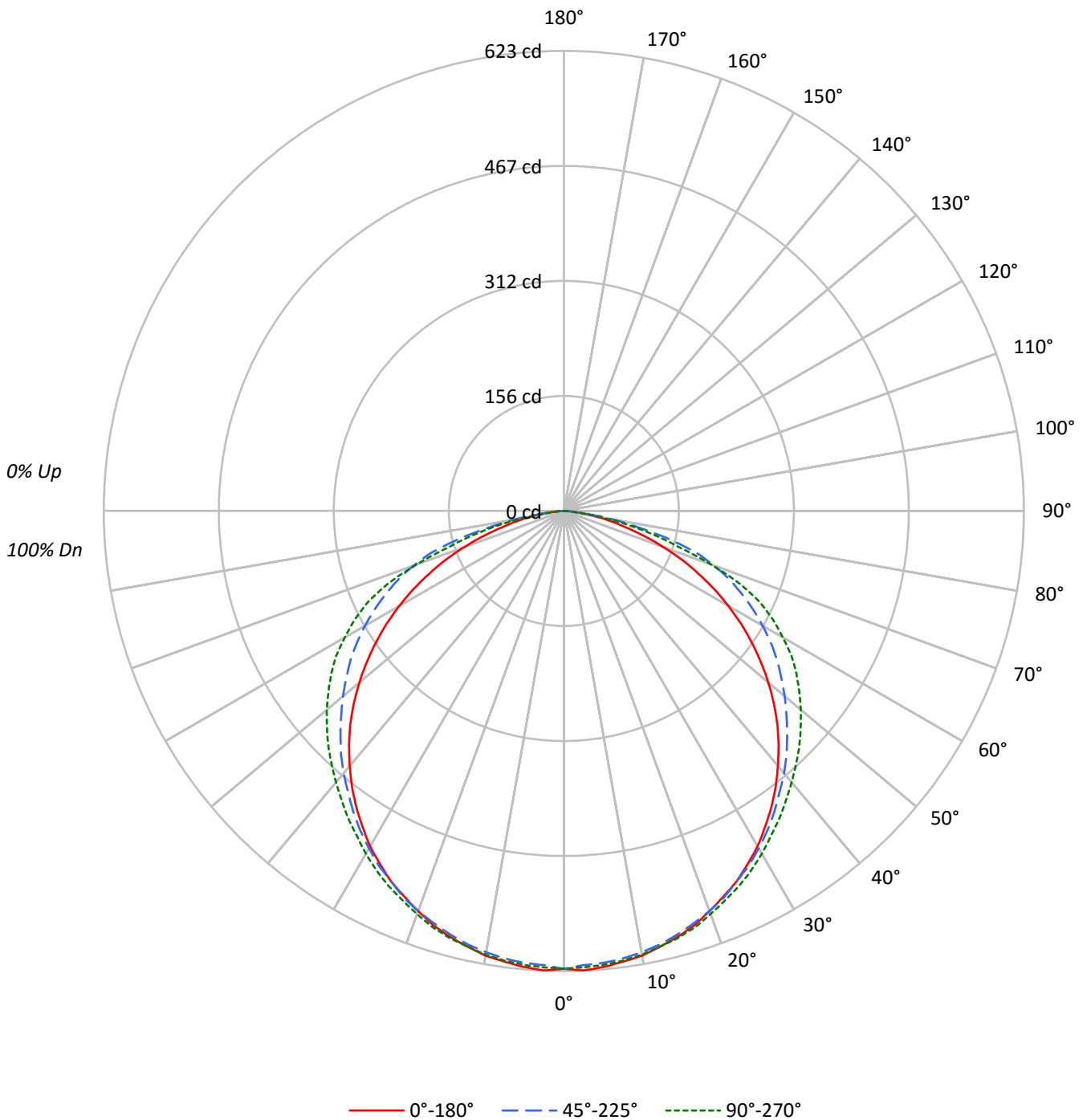
Lumens per Lamp: N/A  
Luminaire Lumens: 1851.0 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 24.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1668	1668	1668
5°	1675	1659	1667
10°	1670	1658	1666
15°	1663	1655	1667
20°	1651	1651	1664
25°	1643	1643	1665
30°	1630	1639	1666
35°	1609	1633	1671
40°	1584	1630	1685
45°	1556	1628	1716
50°	1513	1634	1755
55°	1458	1654	1803
60°	1384	1672	1843
65°	1279	1693	1868
70°	1137	1706	1671
75°	917	1533	1337
80°	716	1075	874
85°	491	312	222



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.7	3.2
10°-20°	168.4	9.1
20°-30°	256.3	13.8
30°-40°	312.2	16.9
40°-50°	331.2	17.9
50°-60°	312.6	16.9
60°-70°	252.4	13.6
70°-80°	136.9	7.4
80°-90°	22.2	1.2
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°	483.4	26.1
0°-40°	795.6	43.0
0°-60°	1439.5	77.8
0°-90°	1851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1851.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	620	618	614	618	617	59
15°	597	595	594	598	598	168
25°	554	552	554	559	561	255
35°	490	493	497	507	509	306
45°	409	415	428	444	451	315
55°	311	324	353	376	384	278
65°	201	225	266	288	293	199
75°	88	129	147	133	129	96
85°	16	17	10	9	7	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	619.9	619.9	619.9	619.9	619.9
2.5°	622.8	619.9	615.6	619.9	618.5
5°	619.9	618.5	614.2	618.5	617.1
7.5°	615.6	615.6	611.3	614.2	614.2
10°	611.3	609.8	606.9	611.3	609.8
12.5°	604.1	602.6	601.2	605.5	604.1
15°	596.8	595.4	593.9	598.3	598.3
17.5°	588.2	586.7	585.3	591.0	591.0
20°	576.6	576.6	576.6	582.4	580.9
22.5°	565.0	565.0	566.5	572.3	570.8
25°	553.5	552.0	553.5	559.3	560.7
27.5°	539.0	540.5	541.9	547.7	549.1
30°	524.6	526.0	527.5	534.7	536.1
32.5°	507.2	510.1	513.0	521.7	521.7
35°	489.9	492.8	497.1	507.2	508.7
37.5°	471.1	474.0	479.8	491.3	494.2
40°	450.9	455.2	463.9	475.4	479.8
42.5°	430.6	436.4	446.5	459.5	465.3
45°	409.0	414.7	427.7	443.6	450.9
47.5°	385.8	393.1	409.0	429.2	435.0
50°	361.3	371.4	390.2	411.9	419.1
52.5°	336.7	348.3	371.4	394.5	401.7
55°	310.7	323.7	352.6	375.7	384.4
57.5°	284.7	299.1	332.4	356.9	365.6
60°	257.2	274.6	310.7	335.3	342.5
62.5°	229.8	250.0	289.0	313.6	319.4
65°	200.9	225.4	265.9	287.6	293.4
67.5°	173.4	202.3	242.8	258.7	258.7
70°	144.5	176.3	216.8	221.1	212.4
72.5°	115.6	151.7	187.9	172.0	164.7
75°	88.2	128.6	147.4	132.9	128.6
77.5°	66.5	104.0	104.0	95.4	92.5
80°	46.2	79.5	69.4	60.7	56.4
82.5°	30.3	44.8	36.1	28.9	24.6
85°	15.9	17.3	10.1	8.7	7.2
87.5°	5.8	2.9	1.4	2.9	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)