

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: P307480

Luminaire Tested: **14FCZ2-44-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: P307480  
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: 14FCZ2-44-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**

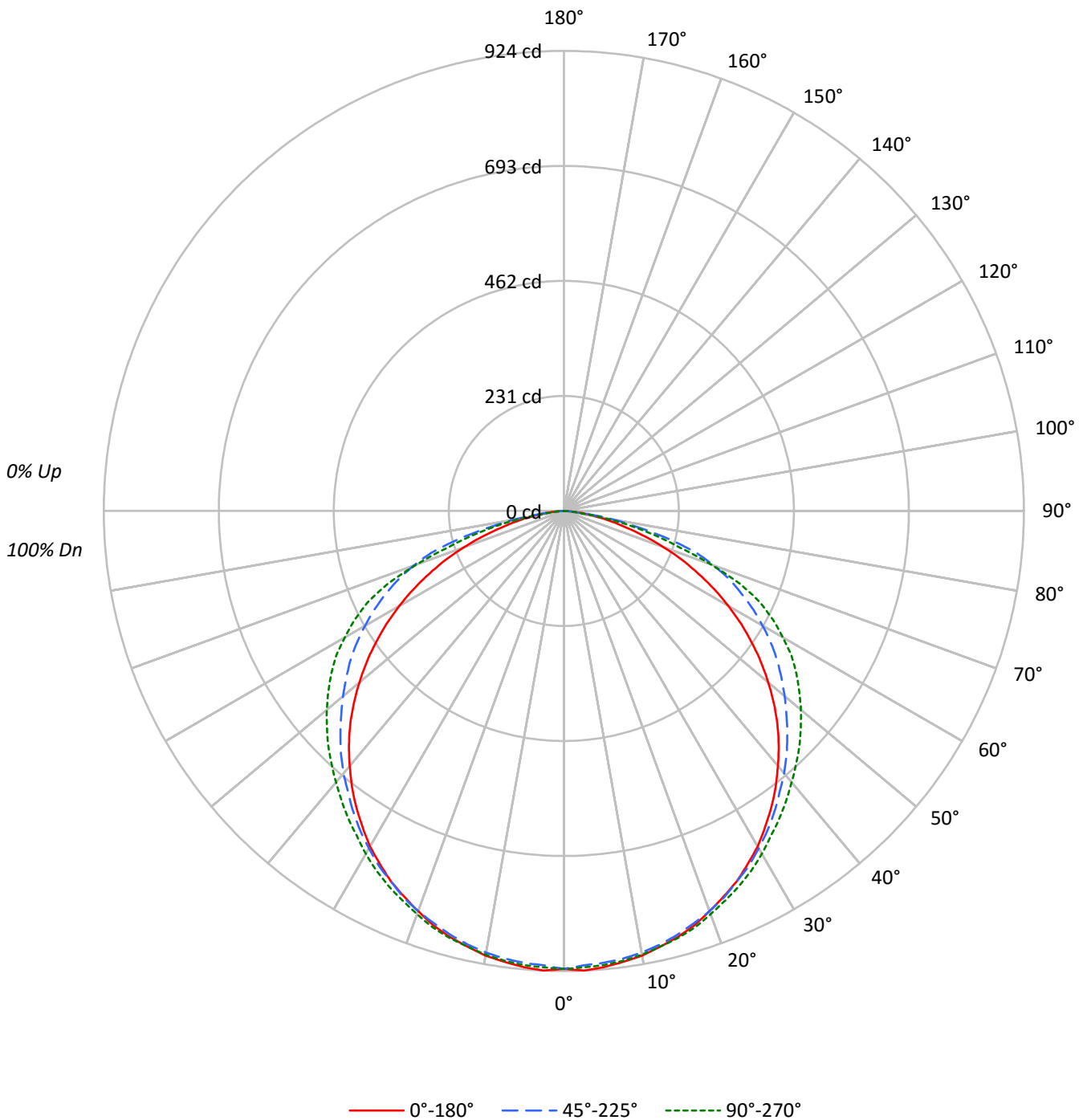
Lumens per Lamp: N/A  
Luminaire Lumens: 2746.0 lumens  
Efficiency: N/A  
Efficacy: 70.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 39.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	2475	2475	2475
5°	2484	2461	2473
10°	2478	2460	2472
15°	2467	2455	2472
20°	2450	2450	2468
25°	2438	2438	2470
30°	2418	2431	2472
35°	2388	2423	2479
40°	2350	2418	2500
45°	2309	2415	2546
50°	2244	2423	2603
55°	2162	2454	2676
60°	2054	2481	2735
65°	1897	2512	2771
70°	1687	2530	2479
75°	1360	2274	1984
80°	1063	1595	1296
85°	729	463	330



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.1	3.2
10°-20°	249.8	9.1
20°-30°	380.3	13.8
30°-40°	463.2	16.9
40°-50°	491.4	17.9
50°-60°	463.8	16.9
60°-70°	374.5	13.6
70°-80°	203.1	7.4
80°-90°	32.9	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°	717.1	26.1
0°-40°	1180.3	43.0
0°-60°	2135.5	77.8
0°-90°	2746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2746.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	920	918	911	918	915	87
15°	885	883	881	888	888	250
25°	821	819	821	830	832	378
35°	727	731	738	752	755	454
45°	607	615	635	658	669	467
55°	461	480	523	557	570	412
65°	298	334	394	427	435	295
75°	131	191	219	197	191	143
85°	24	26	15	13	11	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	919.7	919.7	919.7	919.7	919.7
2.5°	924.0	919.7	913.3	919.7	917.6
5°	919.7	917.6	911.1	917.6	915.4
7.5°	913.3	913.3	906.8	911.1	911.1
10°	906.8	904.7	900.4	906.8	904.7
12.5°	896.1	894.0	891.8	898.3	896.1
15°	885.4	883.3	881.1	887.5	887.5
17.5°	872.5	870.4	868.3	876.8	876.8
20°	855.4	855.4	855.4	864.0	861.8
22.5°	838.2	838.2	840.4	849.0	846.8
25°	821.1	818.9	821.1	829.7	831.8
27.5°	799.7	801.8	803.9	812.5	814.7
30°	778.2	780.4	782.5	793.2	795.4
32.5°	752.5	756.8	761.1	773.9	773.9
35°	726.8	731.0	737.5	752.5	754.6
37.5°	698.9	703.2	711.8	728.9	733.2
40°	668.9	675.3	688.2	705.3	711.8
42.5°	638.9	647.4	662.4	681.7	690.3
45°	606.7	615.3	634.6	658.2	668.9
47.5°	572.4	583.1	606.7	636.7	645.3
50°	536.0	551.0	578.8	611.0	621.7
52.5°	499.5	516.7	551.0	585.3	596.0
55°	460.9	480.2	523.1	557.4	570.3
57.5°	422.3	443.8	493.1	529.5	542.4
60°	381.6	407.3	460.9	497.4	508.1
62.5°	340.9	370.9	428.8	465.2	473.8
65°	298.0	334.4	394.5	426.6	435.2
67.5°	257.3	300.1	360.2	383.7	383.7
70°	214.4	261.5	321.6	328.0	315.1
72.5°	171.5	225.1	278.7	255.1	244.4
75°	130.8	190.8	218.7	197.2	190.8
77.5°	98.6	154.4	154.4	141.5	137.2
80°	68.6	117.9	102.9	90.0	83.6
82.5°	45.0	66.5	53.6	42.9	36.4
85°	23.6	25.7	15.0	12.9	10.7
87.5°	8.6	4.3	2.1	4.3	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)