

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: P307479

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CA08-W2A-U-4500K**

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: P307479  
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-4500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC SHEET  
Light Source: (168) 4500K 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**

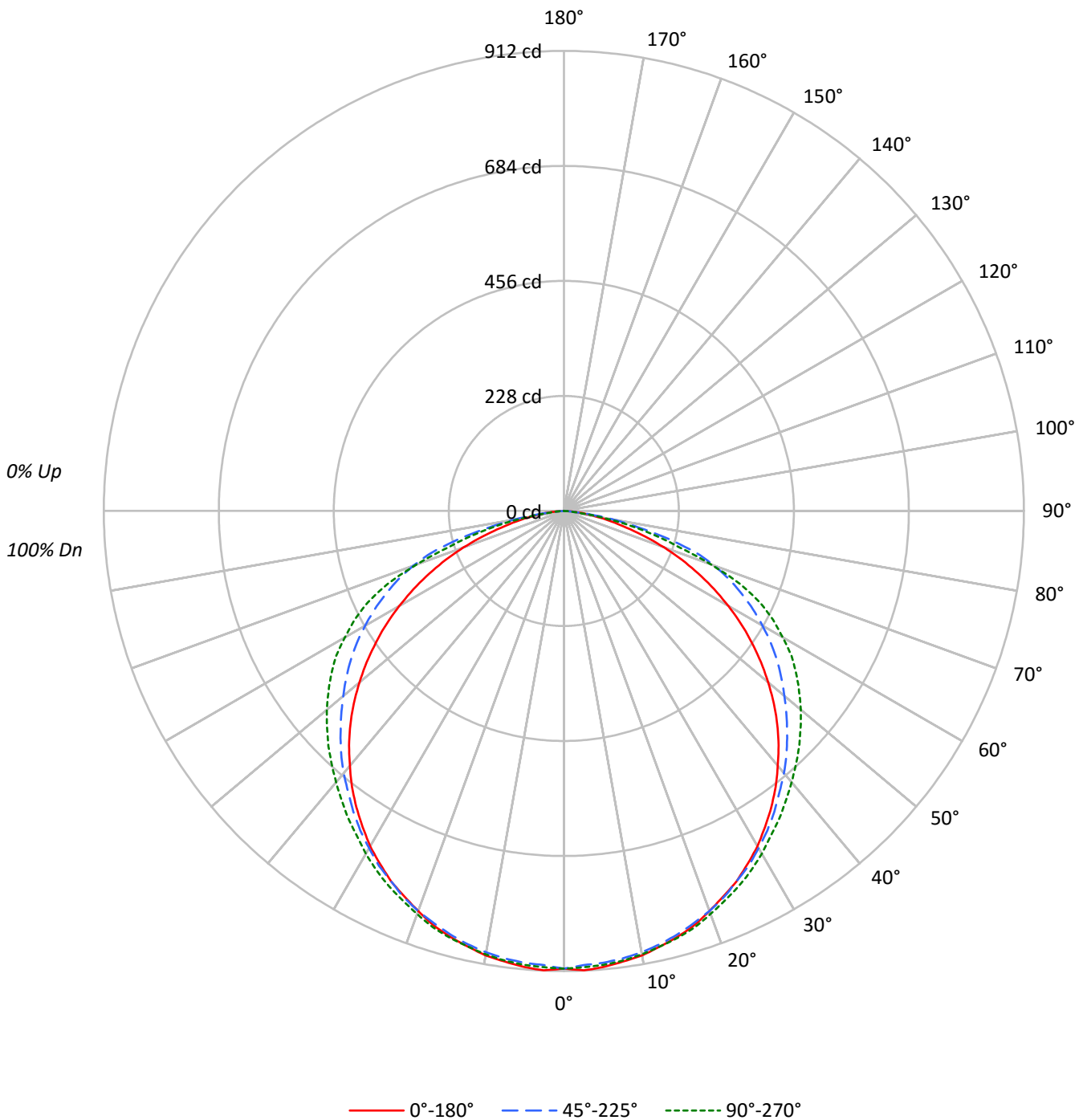
Lumens per Lamp: N/A  
Luminaire Lumens: 2709.0 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 39  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	2442	2442	2442
5°	2451	2428	2440
10°	2444	2427	2439
15°	2433	2422	2439
20°	2417	2417	2435
25°	2405	2405	2436
30°	2385	2399	2438
35°	2355	2390	2446
40°	2318	2385	2467
45°	2278	2382	2511
50°	2213	2390	2568
55°	2133	2421	2639
60°	2026	2447	2697
65°	1872	2478	2734
70°	1664	2496	2446
75°	1341	2243	1957
80°	1049	1573	1278
85°	719	457	327



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.9	3.2
10°-20°	246.4	9.1
20°-30°	375.2	13.8
30°-40°	457.0	16.9
40°-50°	484.8	17.9
50°-60°	457.5	16.9
60°-70°	369.4	13.6
70°-80°	200.4	7.4
80°-90°	32.4	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°	707.4	26.1
0°-40°	1164.4	43.0
0°-60°	2106.7	77.8
0°-90°	2709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2709.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	907	905	899	905	903	86
15°	874	871	869	876	876	246
25°	810	808	810	818	821	373
35°	717	721	728	742	744	448
45°	598	607	626	649	660	461
55°	455	474	516	550	563	406
65°	294	330	389	421	429	291
75°	129	188	216	195	188	141
85°	23	25	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°	907.3	907.3	907.3	907.3	907.3
2.5°	911.5	907.3	901.0	907.3	905.2
5°	907.3	905.2	898.9	905.2	903.1
7.5°	901.0	901.0	894.6	898.9	898.9
10°	894.6	892.5	888.3	894.6	892.5
12.5°	884.0	881.9	879.8	886.2	884.0
15°	873.5	871.4	869.2	875.6	875.6
17.5°	860.8	858.7	856.6	865.0	865.0
20°	843.9	843.9	843.9	852.3	850.2
22.5°	826.9	826.9	829.1	837.5	835.4
25°	810.0	807.9	810.0	818.5	820.6
27.5°	788.9	791.0	793.1	801.6	803.7
30°	767.7	769.8	772.0	782.5	784.6
32.5°	742.3	746.6	750.8	763.5	763.5
35°	717.0	721.2	727.5	742.3	744.5
37.5°	689.5	693.7	702.2	719.1	723.3
40°	659.9	666.2	678.9	695.8	702.2
42.5°	630.3	638.7	653.5	672.6	681.0
45°	598.5	607.0	626.0	649.3	659.9
47.5°	564.7	575.3	598.5	628.1	636.6
50°	528.7	543.5	571.0	602.8	613.3
52.5°	492.8	509.7	543.5	577.4	588.0
55°	454.7	473.7	516.0	549.9	562.6
57.5°	416.6	437.8	486.4	522.4	535.1
60°	376.5	401.8	454.7	490.7	501.2
62.5°	336.3	365.9	423.0	458.9	467.4
65°	294.0	329.9	389.2	420.9	429.3
67.5°	253.8	296.1	355.3	378.6	378.6
70°	211.5	258.0	317.2	323.6	310.9
72.5°	169.2	222.1	274.9	251.7	241.1
75°	129.0	188.2	215.7	194.6	188.2
77.5°	97.3	152.3	152.3	139.6	135.4
80°	67.7	116.3	101.5	88.8	82.5
82.5°	44.4	65.6	52.9	42.3	36.0
85°	23.3	25.4	14.8	12.7	10.6
87.5°	8.5	4.2	2.1	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)