

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: P307490

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-5500K**

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: P307490  
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-CA125-W2A-U-5500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET  
Light Source: (168) 5500K 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**

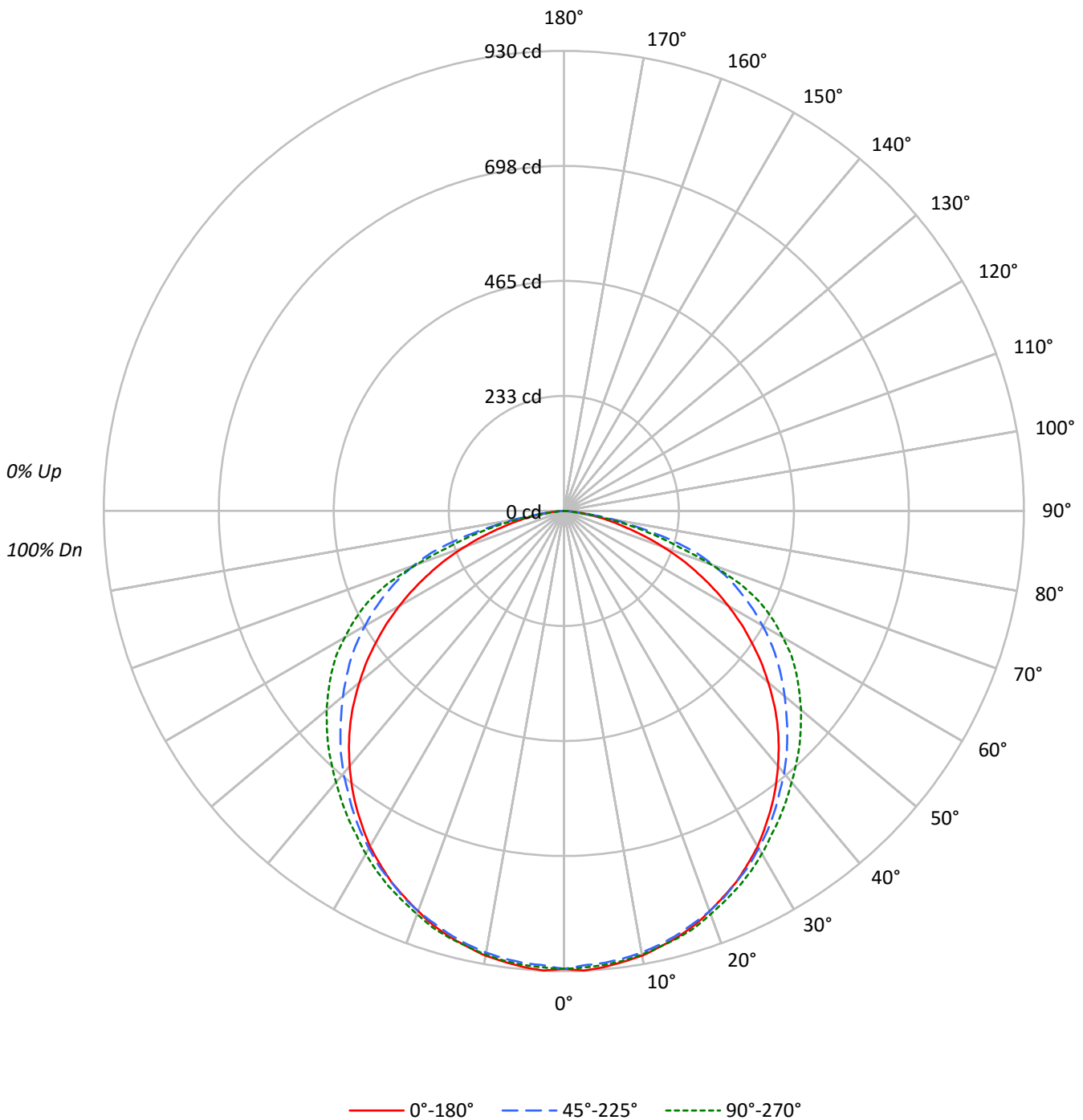
Lumens per Lamp: N/A  
Luminaire Lumens: 2764.0 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 39.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2491	2491	2491
5°	2501	2477	2489
10°	2494	2476	2488
15°	2483	2471	2489
20°	2466	2466	2484
25°	2454	2454	2486
30°	2434	2447	2488
35°	2403	2439	2495
40°	2365	2433	2517
45°	2324	2431	2562
50°	2259	2439	2620
55°	2176	2470	2693
60°	2067	2497	2752
65°	1910	2528	2790
70°	1698	2547	2496
75°	1368	2288	1997
80°	1071	1605	1305
85°	732	466	333



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.6	3.2
10°-20°	251.4	9.1
20°-30°	382.8	13.8
30°-40°	466.2	16.9
40°-50°	494.6	17.9
50°-60°	466.8	16.9
60°-70°	376.9	13.6
70°-80°	204.5	7.4
80°-90°	33.1	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°	721.8	26.1
0°-40°	1188.0	43.0
0°-60°	2149.5	77.8
0°-90°	2764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2764.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	926	924	917	924	921	88
15°	891	889	887	893	893	251
25°	826	824	826	835	837	380
35°	732	736	742	757	760	457
45°	611	619	639	662	673	470
55°	464	483	526	561	574	414
65°	300	337	397	429	438	297
75°	132	192	220	198	192	144
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°	925.7	925.7	925.7	925.7	925.7
2.5°	930.0	925.7	919.3	925.7	923.6
5°	925.7	923.6	917.1	923.6	921.4
7.5°	919.3	919.3	912.8	917.1	917.1
10°	912.8	910.6	906.3	912.8	910.6
12.5°	902.0	899.8	897.7	904.2	902.0
15°	891.2	889.1	886.9	893.4	893.4
17.5°	878.3	876.1	873.9	882.6	882.6
20°	861.0	861.0	861.0	869.6	867.5
22.5°	843.7	843.7	845.9	854.5	852.4
25°	826.5	824.3	826.5	835.1	837.3
27.5°	804.9	807.1	809.2	817.8	820.0
30°	783.3	785.5	787.6	798.4	800.6
32.5°	757.4	761.7	766.1	779.0	779.0
35°	731.5	735.8	742.3	757.4	759.6
37.5°	703.5	707.8	716.4	733.7	738.0
40°	673.3	679.7	692.7	709.9	716.4
42.5°	643.1	651.7	666.8	686.2	694.8
45°	610.7	619.3	638.7	662.5	673.3
47.5°	576.2	586.9	610.7	640.9	649.5
50°	539.5	554.6	582.6	615.0	625.8
52.5°	502.8	520.1	554.6	589.1	599.9
55°	463.9	483.4	526.5	561.1	574.0
57.5°	425.1	446.7	496.3	533.0	545.9
60°	384.1	410.0	463.9	500.6	511.4
62.5°	343.1	373.3	431.6	468.3	476.9
65°	299.9	336.6	397.1	429.4	438.1
67.5°	258.9	302.1	362.5	386.3	386.3
70°	215.8	263.3	323.7	330.2	317.2
72.5°	172.6	226.6	280.5	256.8	246.0
75°	131.6	192.1	220.1	198.5	192.1
77.5°	99.3	155.4	155.4	142.4	138.1
80°	69.1	118.7	103.6	90.6	84.2
82.5°	45.3	66.9	53.9	43.2	36.7
85°	23.7	25.9	15.1	12.9	10.8
87.5°	8.6	4.3	2.2	4.3	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)