

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: P307491

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-5700K**

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: P307491  
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-5700K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET  
Light Source: (168) 5700K 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**

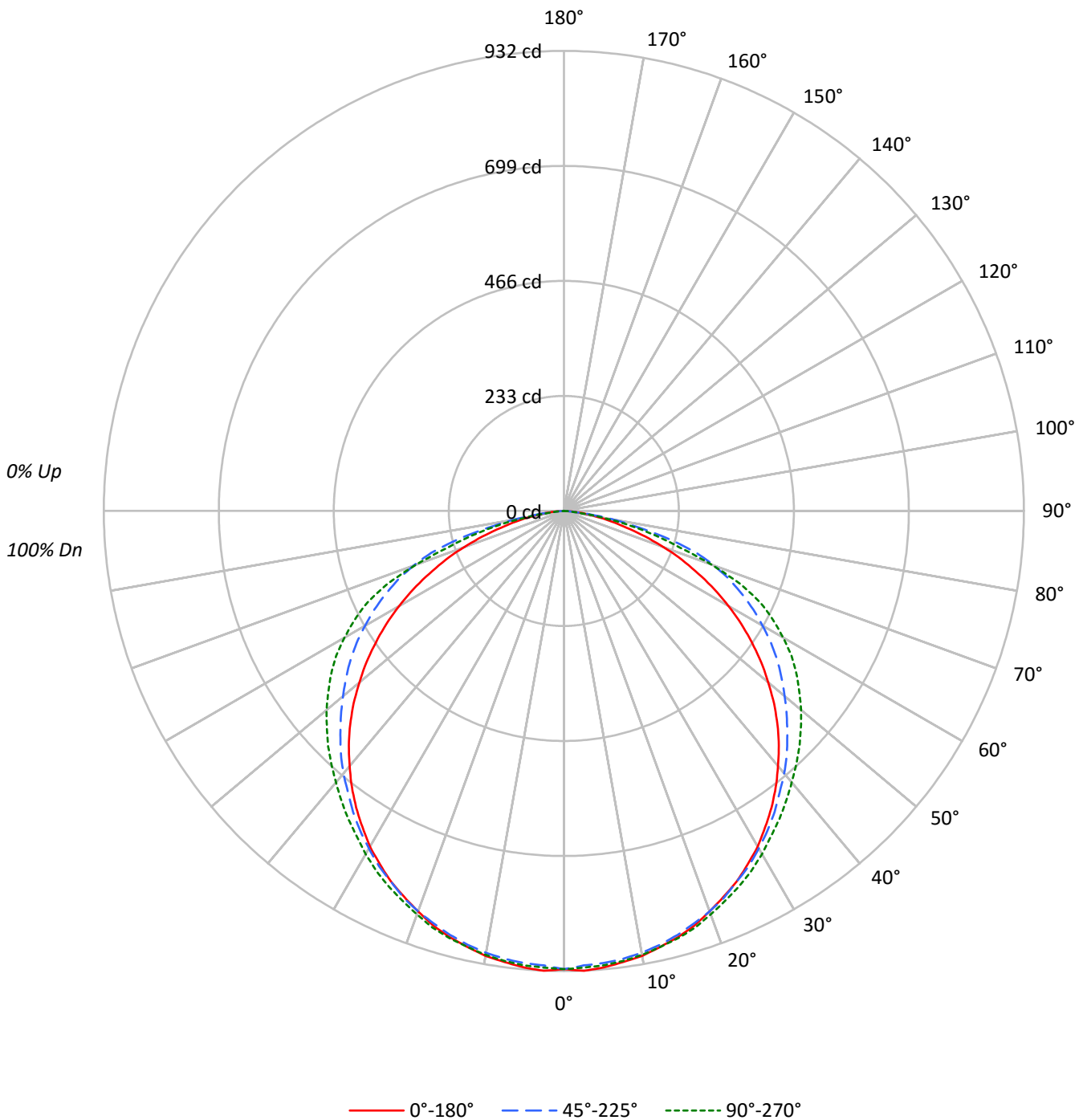
Lumens per Lamp: N/A  
Luminaire Lumens: 2771.0 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 39.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



TEST NUMBER: P307491

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-5700K

### Luminous Intensity Polar Plot





TEST NUMBER: P307491

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-5700K

**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°	2497	2497	2497
5°	2507	2484	2495
10°	2501	2483	2494
15°	2489	2477	2495
20°	2472	2472	2491
25°	2460	2460	2492
30°	2440	2454	2494
35°	2409	2445	2502
40°	2371	2439	2523
45°	2330	2437	2569
50°	2264	2445	2627
55°	2182	2477	2700
60°	2073	2503	2759
65°	1915	2535	2797
70°	1702	2553	2502
75°	1372	2295	2001
80°	1072	1609	1308
85°	735	466	333



TEST NUMBER: P307491

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-5700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.8	3.2
10°-20°	252.0	9.1
20°-30°	383.8	13.8
30°-40°	467.4	16.9
40°-50°	495.9	17.9
50°-60°	468.0	16.9
60°-70°	377.9	13.6
70°-80°	205.0	7.4
80°-90°	33.2	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°	723.6	26.1
0°-40°	1191.0	43.0
0°-60°	2155.0	77.8
0°-90°	2771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2771.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	928	926	919	926	924	88
15°	894	891	889	896	896	252
25°	829	826	829	837	839	381
35°	733	738	744	759	762	459
45°	612	621	640	664	675	471
55°	465	485	528	562	576	415
65°	301	338	398	430	439	298
75°	132	192	221	199	192	144
85°	24	26	15	13	11	31
90°	0	0	0	0	0	



TEST NUMBER: P307491

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-5700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	928.1	928.1	928.1	928.1	928.1
2.5°	932.4	928.1	921.6	928.1	925.9
5°	928.1	925.9	919.4	925.9	923.8
7.5°	921.6	921.6	915.1	919.4	919.4
10°	915.1	912.9	908.6	915.1	912.9
12.5°	904.3	902.1	900.0	906.4	904.3
15°	893.5	891.3	889.1	895.6	895.6
17.5°	880.5	878.3	876.2	884.8	884.8
20°	863.2	863.2	863.2	871.8	869.7
22.5°	845.9	845.9	848.0	856.7	854.5
25°	828.6	826.4	828.6	837.2	839.4
27.5°	806.9	809.1	811.3	819.9	822.1
30°	785.3	787.5	789.6	800.4	802.6
32.5°	759.3	763.7	768.0	781.0	781.0
35°	733.4	737.7	744.2	759.3	761.5
37.5°	705.3	709.6	718.2	735.5	739.9
40°	675.0	681.5	694.4	711.7	718.2
42.5°	644.7	653.3	668.5	687.9	696.6
45°	612.2	620.9	640.4	664.1	675.0
47.5°	577.6	588.4	612.2	642.5	651.2
50°	540.8	556.0	584.1	616.6	627.4
52.5°	504.1	521.4	556.0	590.6	601.4
55°	465.1	484.6	527.9	562.5	575.5
57.5°	426.2	447.8	497.6	534.3	547.3
60°	385.1	411.0	465.1	501.9	512.7
62.5°	344.0	374.3	432.7	469.4	478.1
65°	300.7	337.5	398.1	430.5	439.2
67.5°	259.6	302.9	363.4	387.2	387.2
70°	216.3	263.9	324.5	331.0	318.0
72.5°	173.1	227.2	281.2	257.4	246.6
75°	132.0	192.5	220.7	199.0	192.5
77.5°	99.5	155.8	155.8	142.8	138.5
80°	69.2	119.0	103.8	90.9	84.4
82.5°	45.4	67.1	54.1	43.3	36.8
85°	23.8	26.0	15.1	13.0	10.8
87.5°	8.7	4.3	2.2	4.3	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)