

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: P307625

Luminaire Tested: **14FCZ2-29-UNV-L82765-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: P307625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
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-CA125-W2A-U-5500K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 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

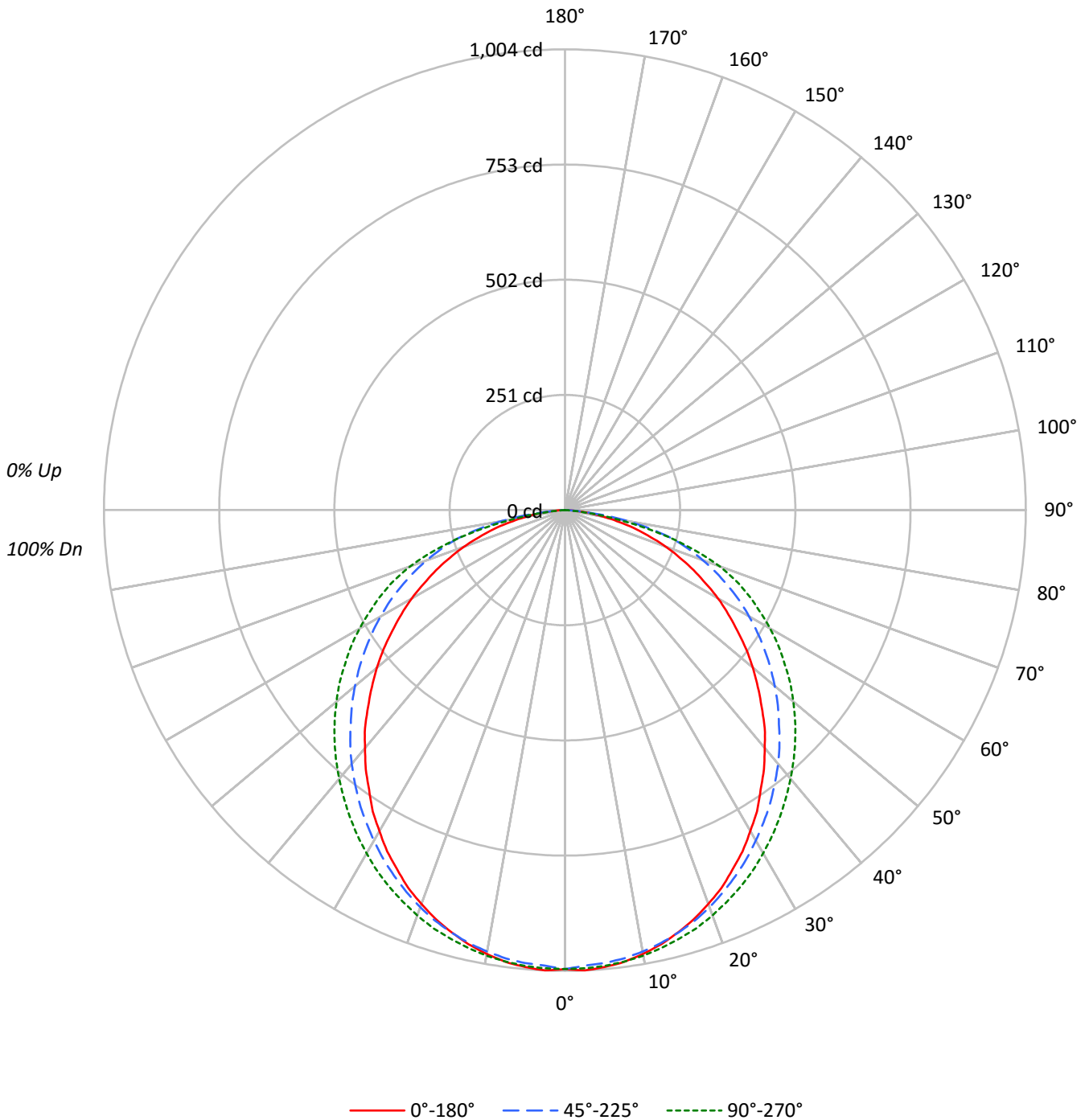
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2903.0 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 24.5  
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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	2691	2691	2691
5°	2700	2677	2693
10°	2683	2669	2694
15°	2654	2656	2692
20°	2616	2638	2692
25°	2566	2612	2689
30°	2510	2585	2683
35°	2443	2562	2682
40°	2379	2538	2686
45°	2306	2510	2700
50°	2238	2498	2718
55°	2153	2490	2742
60°	2076	2495	2780
65°	1970	2502	2823
70°	1849	2521	2821
75°	1676	2544	2550
80°	1375	2197	1816
85°	1019	1041	420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.6	3.3
10°-20°	270.3	9.3
20°-30°	407.2	14.0
30°-40°	488.7	16.8
40°-50°	509.3	17.5
50°-60°	471.5	16.2
60°-70°	381.0	13.1
70°-80°	232.3	8.0
80°-90°	48.0	1.7
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°	772.2	26.6
0°-40°	1260.9	43.4
0°-60°	2241.8	77.2
0°-90°	2903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2903.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	999	997	991	998	997	95
15°	953	954	954	966	966	269
25°	864	869	880	902	906	398
35°	744	755	780	808	816	466
45°	606	624	660	696	710	468
55°	459	483	531	572	584	411
65°	309	340	393	432	443	306
75°	161	197	245	249	245	169
85°	33	49	34	19	14	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1000.1	1000.1	1000.1	1000.1	1000.1
2.5°	1004.0	1000.7	993.6	1000.7	999.4
5°	999.4	996.9	991.0	998.2	996.9
7.5°	993.0	990.4	985.2	993.6	992.3
10°	982.0	980.7	976.8	986.5	985.9
12.5°	969.0	968.4	966.4	977.4	976.8
15°	952.8	953.5	953.5	966.4	966.4
17.5°	934.7	936.0	938.6	952.8	954.8
20°	913.4	915.9	921.1	937.3	939.9
22.5°	891.3	893.3	901.1	920.5	923.1
25°	864.2	869.3	879.7	901.7	905.6
27.5°	838.3	842.8	857.0	879.7	886.2
30°	807.8	815.0	831.8	856.4	863.5
32.5°	778.7	786.5	805.9	834.4	840.9
35°	743.8	755.4	780.0	808.5	816.3
37.5°	712.0	723.0	750.9	781.9	791.0
40°	677.1	690.7	722.4	755.4	764.5
42.5°	644.7	657.7	692.0	725.6	737.9
45°	605.9	624.0	659.6	696.5	709.5
47.5°	570.3	588.4	629.2	668.7	680.3
50°	534.7	554.1	596.8	637.6	649.3
52.5°	497.8	518.5	564.5	605.2	618.8
55°	458.9	482.9	530.8	572.2	584.5
57.5°	422.0	446.6	497.8	539.9	552.2
60°	385.8	411.0	463.5	503.6	516.6
62.5°	345.7	375.4	429.8	469.3	479.0
65°	309.4	339.8	392.9	432.4	443.4
67.5°	271.2	304.2	357.3	393.6	403.9
70°	235.0	269.3	320.4	354.1	358.6
72.5°	196.1	231.1	282.9	304.2	304.2
75°	161.2	196.8	244.7	248.6	245.3
77.5°	123.0	162.5	193.5	185.8	178.0
80°	88.7	127.5	141.8	127.5	117.2
82.5°	59.6	92.6	85.4	68.0	60.2
85°	33.0	49.2	33.7	18.8	13.6
87.5°	12.3	11.0	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)