

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: P307485

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-3000K**

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: P307485  
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-3000K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET  
Light Source: (168) 3000K 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: 2509.0 lumens  
Efficiency: N/A  
Efficacy: 66.0 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

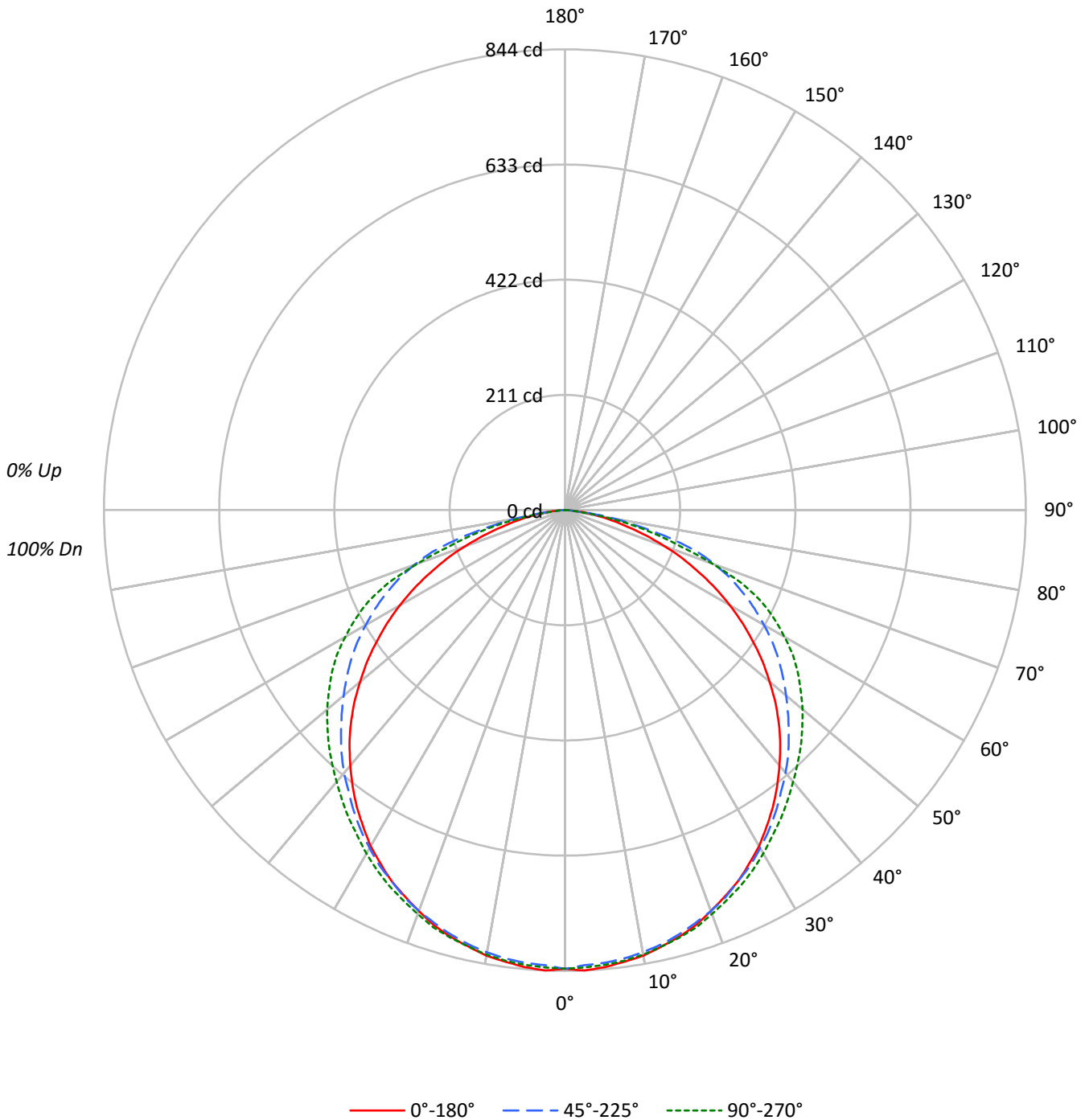
Input Watts (W): 38  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2261	2261	2261
5°	2270	2249	2259
10°	2264	2248	2259
15°	2254	2243	2259
20°	2238	2238	2255
25°	2227	2227	2257
30°	2209	2222	2258
35°	2181	2213	2265
40°	2147	2209	2284
45°	2109	2206	2326
50°	2050	2214	2378
55°	1976	2242	2444
60°	1877	2266	2498
65°	1734	2295	2532
70°	1541	2312	2265
75°	1242	2077	1812
80°	972	1457	1184
85°	664	423	303



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.5	3.2
10°-20°	228.2	9.1
20°-30°	347.5	13.8
30°-40°	423.2	16.9
40°-50°	449.0	17.9
50°-60°	423.8	16.9
60°-70°	342.2	13.6
70°-80°	185.6	7.4
80°-90°	30.0	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°	655.2	26.1
0°-40°	1078.4	43.0
0°-60°	1951.2	77.8
0°-90°	2509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	840	838	832	838	836	80
15°	809	807	805	811	811	228
25°	750	748	750	758	760	345
35°	664	668	674	688	690	415
45°	554	562	580	601	611	427
55°	421	439	478	509	521	376
65°	272	306	360	390	398	270
75°	120	174	200	180	174	131
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	840.3	840.3	840.3	840.3	840.3
2.5°	844.2	840.3	834.5	840.3	838.4
5°	840.3	838.4	832.5	838.4	836.4
7.5°	834.5	834.5	828.6	832.5	832.5
10°	828.6	826.6	822.7	828.6	826.6
12.5°	818.8	816.8	814.9	820.7	818.8
15°	809.0	807.0	805.1	810.9	810.9
17.5°	797.2	795.3	793.3	801.2	801.2
20°	781.6	781.6	781.6	789.4	787.4
22.5°	765.9	765.9	767.9	775.7	773.7
25°	750.2	748.3	750.2	758.1	760.0
27.5°	730.6	732.6	734.6	742.4	744.3
30°	711.0	713.0	715.0	724.8	726.7
32.5°	687.5	691.5	695.4	707.1	707.1
35°	664.0	668.0	673.8	687.5	689.5
37.5°	638.6	642.5	650.3	666.0	669.9
40°	611.1	617.0	628.8	644.4	650.3
42.5°	583.7	591.6	605.3	622.9	630.7
45°	554.3	562.2	579.8	601.4	611.1
47.5°	523.0	532.8	554.3	581.8	589.6
50°	489.7	503.4	528.9	558.3	568.1
52.5°	456.4	472.1	503.4	534.8	544.5
55°	421.1	438.8	477.9	509.3	521.0
57.5°	385.9	405.5	450.5	483.8	495.6
60°	348.7	372.2	421.1	454.4	464.2
62.5°	311.5	338.9	391.8	425.1	432.9
65°	272.3	305.6	360.4	389.8	397.6
67.5°	235.1	274.2	329.1	350.6	350.6
70°	195.9	239.0	293.8	299.7	287.9
72.5°	156.7	205.7	254.6	233.1	223.3
75°	119.5	174.3	199.8	180.2	174.3
77.5°	90.1	141.0	141.0	129.3	125.4
80°	62.7	107.7	94.0	82.3	76.4
82.5°	41.1	60.7	49.0	39.2	33.3
85°	21.5	23.5	13.7	11.8	9.8
87.5°	7.8	3.9	2.0	3.9	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)