

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: P307203

Luminaire Tested: **14FCZ2-39-UNV-L82765-HRP-CP250-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: P307203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-39-UNV-L82765-HRP-CP250-W2A-U-5700K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.250"  
POLYCARB 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**

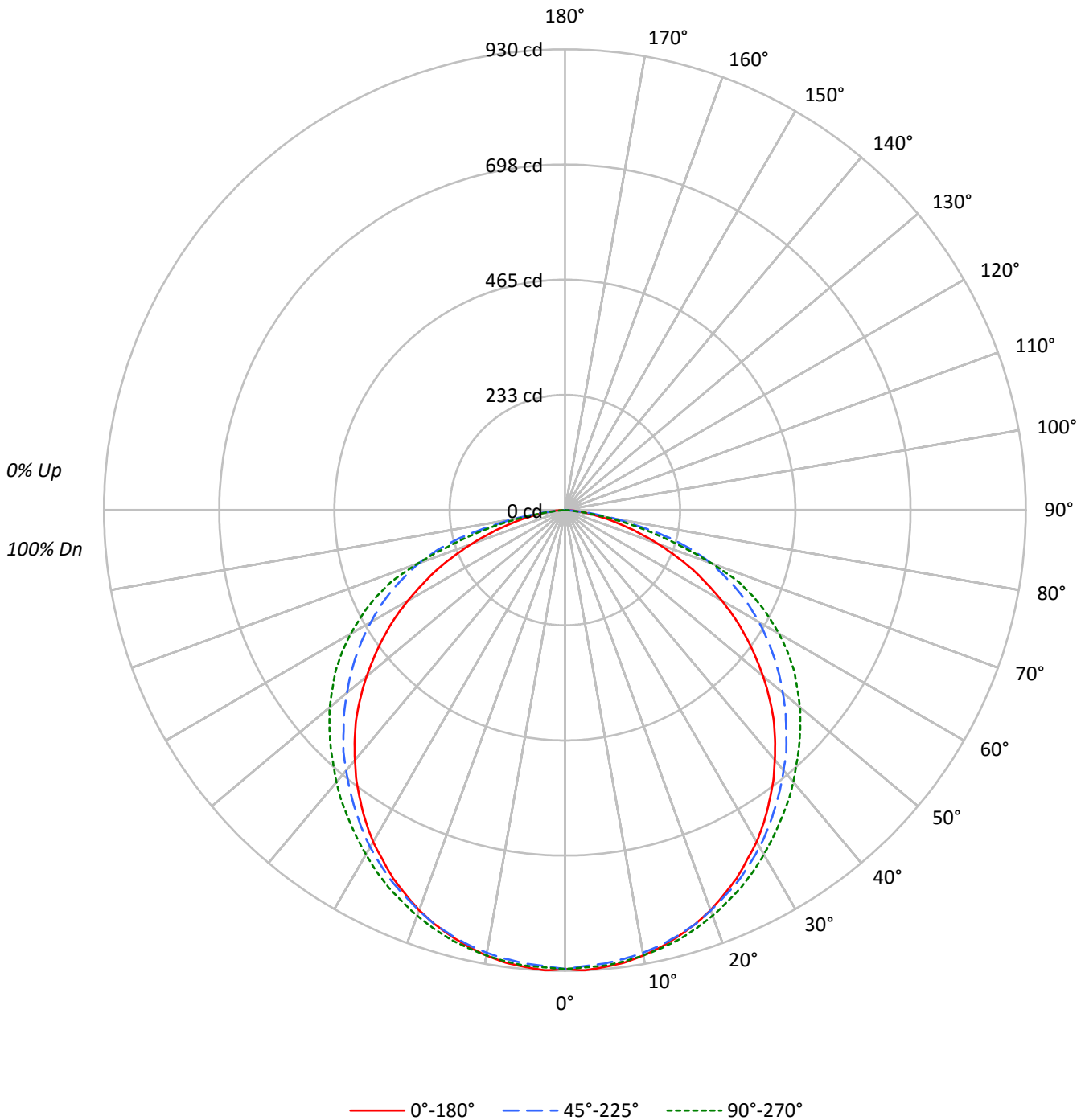
Lumens per Lamp: N/A  
Luminaire Lumens: 2728.0 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 34.2  
Input Voltage (V): NR  
Input Current (A<sub>in</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	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	2493	2493	2493
5°	2500	2482	2493
10°	2494	2480	2494
15°	2478	2473	2497
20°	2461	2464	2496
25°	2435	2455	2496
30°	2404	2442	2495
35°	2362	2423	2500
40°	2314	2411	2519
45°	2265	2403	2546
50°	2187	2403	2593
55°	2093	2415	2648
60°	1967	2433	2682
65°	1813	2458	2699
70°	1579	2463	2484
75°	1302	2293	2007
80°	1024	1649	1342
85°	794	636	318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.7	3.2
10°-20°	251.7	9.2
20°-30°	382.2	14.0
30°-40°	463.1	17.0
40°-50°	488.0	17.9
50°-60°	455.6	16.7
60°-70°	364.1	13.3
70°-80°	200.3	7.3
80°-90°	35.4	1.3
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°	721.6	26.5
0°-40°	1184.7	43.4
0°-60°	2128.2	78.0
0°-90°	2728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2728.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	926	923	919	925	923	88
15°	890	890	888	896	896	251
25°	820	822	827	839	841	378
35°	719	726	738	757	761	450
45°	595	606	631	660	669	458
55°	446	468	515	551	564	398
65°	285	321	386	418	424	280
75°	125	179	220	198	193	135
85°	26	33	21	13	10	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	926.4	926.4	926.4	926.4	926.4
2.5°	929.9	927.3	921.3	926.4	923.9
5°	925.6	923.0	918.7	924.7	923.0
7.5°	921.3	917.9	913.6	920.4	918.7
10°	912.7	910.1	907.6	913.6	912.7
12.5°	902.4	901.6	899.0	905.9	905.0
15°	889.6	889.6	887.8	896.4	896.4
17.5°	875.8	875.0	875.8	885.3	884.4
20°	859.5	859.5	860.4	871.5	871.5
22.5°	839.8	840.7	843.2	857.0	856.1
25°	820.1	821.8	826.9	838.9	840.7
27.5°	796.1	800.3	806.3	820.9	822.6
30°	773.8	776.3	785.8	799.5	802.9
32.5°	747.2	752.3	762.6	778.0	782.3
35°	718.9	725.7	737.7	756.6	760.9
37.5°	690.5	696.5	712.8	732.6	740.3
40°	658.8	669.1	686.3	708.6	717.1
42.5°	627.9	638.2	661.4	684.5	692.3
45°	595.3	606.5	631.4	659.7	669.1
47.5°	559.3	572.2	603.9	633.9	644.2
50°	522.4	538.7	573.9	607.3	619.3
52.5°	483.8	504.4	544.7	579.9	591.0
55°	446.1	468.4	514.7	550.7	564.4
57.5°	407.5	431.5	483.8	525.0	532.7
60°	365.4	394.6	452.1	488.1	498.4
62.5°	324.3	357.7	419.5	453.8	462.4
65°	284.8	320.8	386.0	417.8	423.8
67.5°	241.9	284.8	349.1	378.3	380.0
70°	200.7	250.5	313.1	326.8	315.7
72.5°	160.4	213.6	271.1	259.9	250.5
75°	125.2	179.3	220.5	198.2	193.0
77.5°	92.6	146.7	157.8	145.8	136.4
80°	66.1	115.8	106.4	90.9	86.6
82.5°	45.5	72.9	58.3	45.5	39.5
85°	25.7	32.6	20.6	12.9	10.3
87.5°	11.2	7.7	4.3	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)