

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: P307242

Luminaire Tested: **14FCZ2-44-UNV-L82765-HRP-CP250-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: P307242  
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: 14FCZ2-44-UNV-L82765-HRP-CP250-W2A-U-3000K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.250"  
POLYCARB 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: 2762.0 lumens  
Efficiency: N/A  
Efficacy: 72.7 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

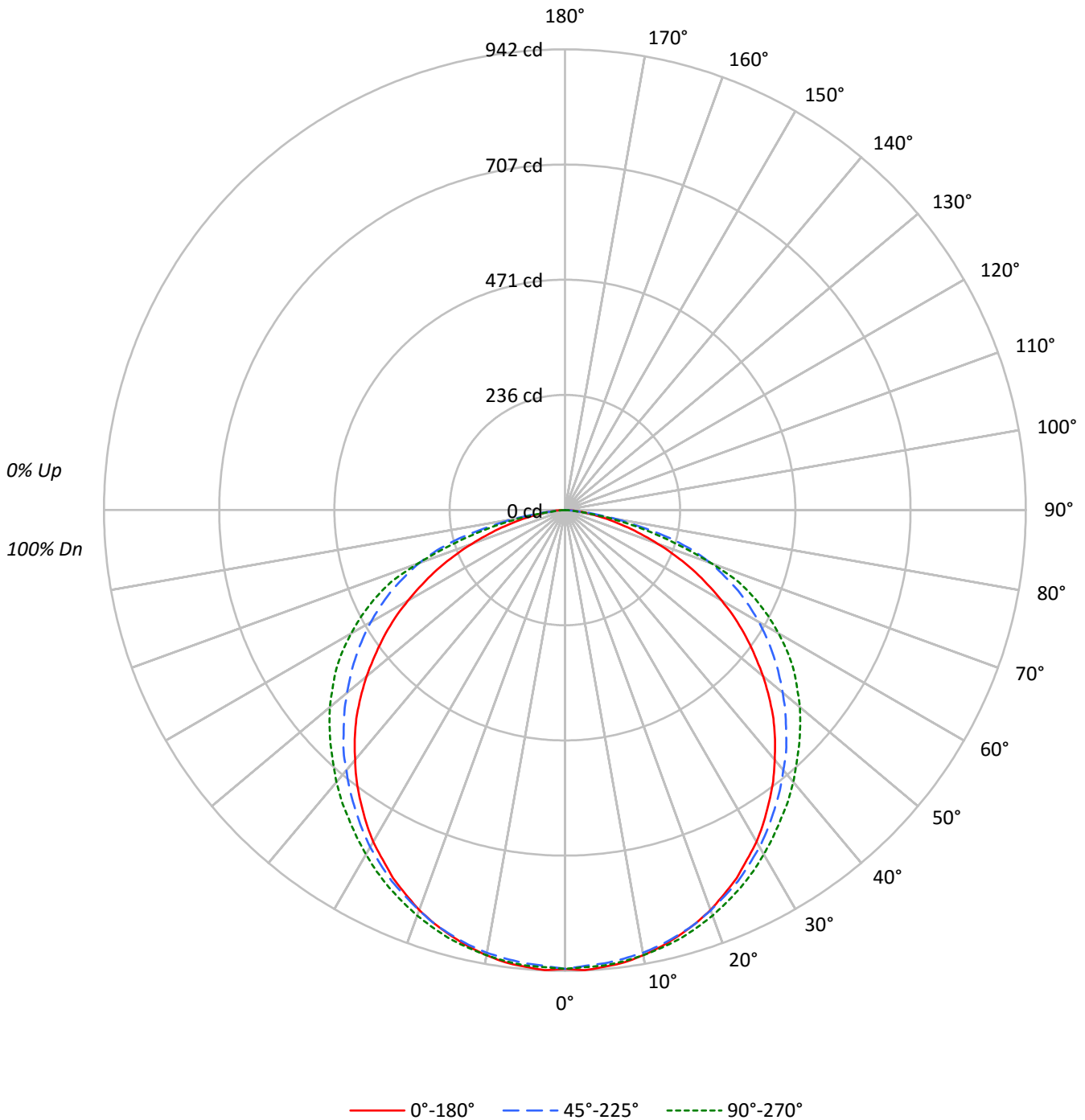
Input Watts (W): 38  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2524	2524	2524
5°	2531	2513	2524
10°	2525	2511	2525
15°	2509	2504	2528
20°	2492	2495	2527
25°	2465	2486	2527
30°	2434	2472	2526
35°	2391	2454	2531
40°	2343	2441	2551
45°	2294	2433	2578
50°	2214	2432	2625
55°	2119	2445	2681
60°	1991	2463	2716
65°	1836	2488	2732
70°	1599	2494	2515
75°	1318	2321	2032
80°	1037	1669	1359
85°	806	642	321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.8	3.2
10°-20°	254.8	9.2
20°-30°	387.0	14.0
30°-40°	468.9	17.0
40°-50°	494.1	17.9
50°-60°	461.2	16.7
60°-70°	368.6	13.3
70°-80°	202.8	7.3
80°-90°	35.8	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°	730.6	26.5
0°-40°	1199.4	43.4
0°-60°	2154.7	78.0
0°-90°	2762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2762.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	937	934	930	936	934	89
15°	901	901	899	908	908	254
25°	830	832	837	849	851	382
35°	728	735	747	766	770	455
45°	603	614	639	668	677	464
55°	452	474	521	558	572	403
65°	288	325	391	423	429	284
75°	127	182	223	201	195	136
85°	26	33	21	13	10	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	938.0	938.0	938.0	938.0	938.0
2.5°	941.5	938.9	932.8	938.0	935.4
5°	937.1	934.5	930.2	936.3	934.5
7.5°	932.8	929.3	925.0	931.9	930.2
10°	924.1	921.5	918.9	925.0	924.1
12.5°	913.7	912.8	910.2	917.1	916.3
15°	900.6	900.6	898.9	907.6	907.6
17.5°	886.7	885.9	886.7	896.3	895.4
20°	870.2	870.2	871.1	882.4	882.4
22.5°	850.3	851.1	853.7	867.6	866.8
25°	830.3	832.0	837.2	849.4	851.1
27.5°	806.0	810.3	816.4	831.2	832.9
30°	783.4	786.0	795.6	809.4	812.9
32.5°	756.5	761.7	772.1	787.7	792.1
35°	727.8	734.8	746.9	766.0	770.4
37.5°	699.1	705.2	721.7	741.7	749.5
40°	667.0	677.4	694.8	717.4	726.1
42.5°	635.7	646.2	669.6	693.1	700.9
45°	602.7	614.0	639.2	667.9	677.4
47.5°	566.3	579.3	611.4	641.8	652.2
50°	528.9	545.4	581.0	614.9	627.1
52.5°	489.8	510.7	551.5	587.1	598.4
55°	451.6	474.2	521.1	557.6	571.5
57.5°	412.5	436.9	489.8	531.5	539.3
60°	370.0	399.5	457.7	494.2	504.6
62.5°	328.3	362.2	424.7	459.4	468.1
65°	288.3	324.8	390.8	423.0	429.0
67.5°	244.9	288.3	353.5	383.0	384.7
70°	203.2	253.6	317.0	330.9	319.6
72.5°	162.4	216.3	274.4	263.2	253.6
75°	126.8	181.5	223.2	200.6	195.4
77.5°	93.8	148.5	159.8	147.6	138.1
80°	66.9	117.2	107.7	92.1	87.7
82.5°	46.0	73.8	59.1	46.0	40.0
85°	26.1	33.0	20.8	13.0	10.4
87.5°	11.3	7.8	4.3	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)