

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: P307224

Luminaire Tested: **14FCZ2-44-UNV-L82765-HRP-CP125-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: P307224  
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-CP125-W2A-U-3000K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" 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: 2908.0 lumens  
Efficiency: N/A  
Efficacy: 76.5 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

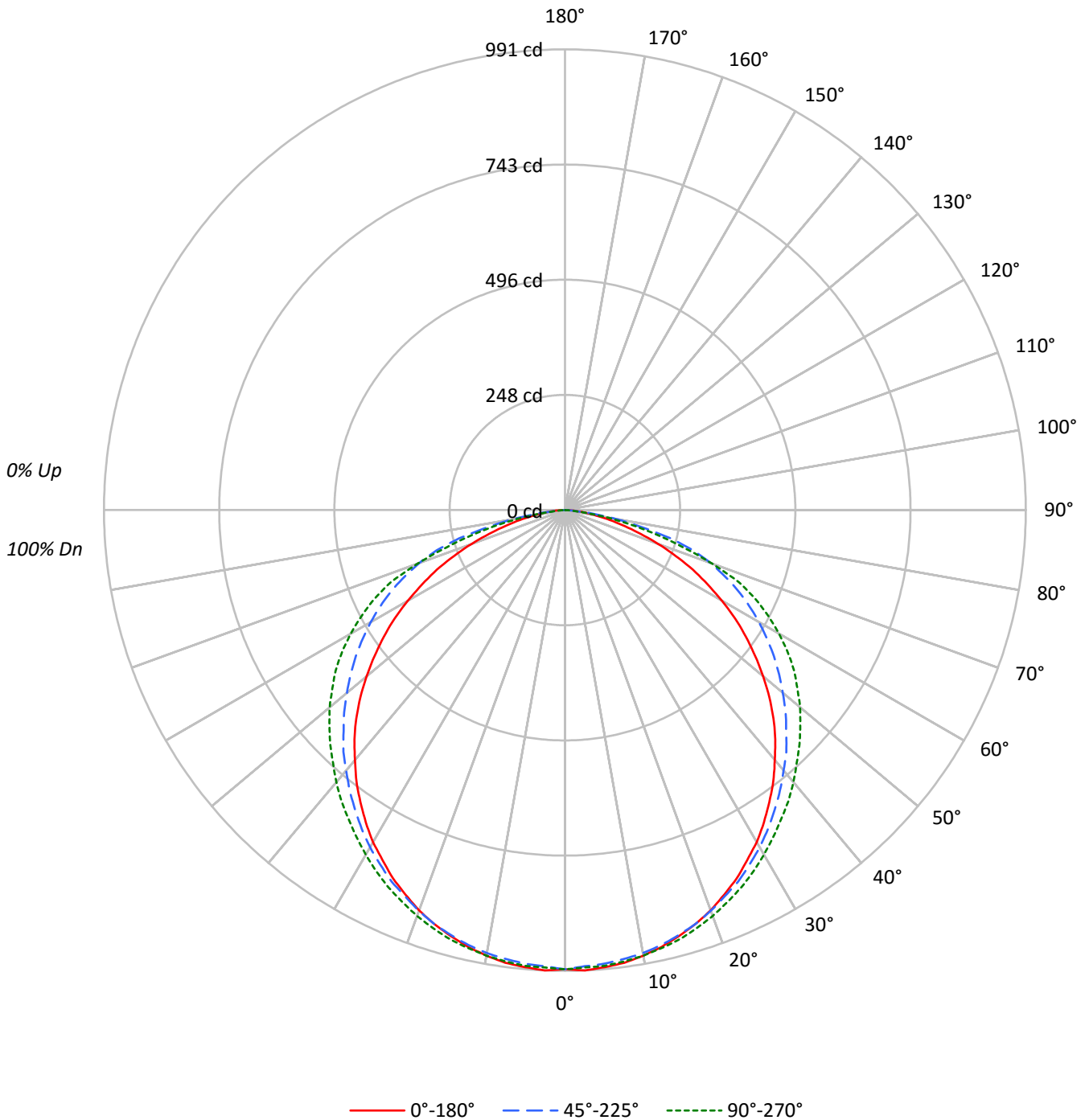
Input Watts (W): 38  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2658	2658	2658
5°	2665	2645	2658
10°	2658	2644	2658
15°	2642	2637	2662
20°	2624	2627	2660
25°	2596	2617	2661
30°	2563	2603	2660
35°	2517	2583	2665
40°	2467	2570	2686
45°	2415	2561	2714
50°	2331	2561	2764
55°	2231	2574	2823
60°	2096	2594	2859
65°	1933	2620	2876
70°	1684	2626	2648
75°	1388	2443	2139
80°	1091	1757	1432
85°	846	676	340



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.5	3.2
10°-20°	268.3	9.2
20°-30°	407.4	14.0
30°-40°	493.6	17.0
40°-50°	520.2	17.9
50°-60°	485.6	16.7
60°-70°	388.1	13.3
70°-80°	213.6	7.3
80°-90°	37.7	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°	769.2	26.5
0°-40°	1262.8	43.4
0°-60°	2268.7	78.0
0°-90°	2908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2908.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	987	984	979	986	984	94
15°	948	948	946	956	956	268
25°	874	876	882	894	896	402
35°	766	774	786	806	811	479
45°	635	646	673	703	713	488
55°	476	499	549	587	602	424
65°	304	342	412	445	452	299
75°	134	191	235	211	206	144
85°	27	35	22	14	11	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	987.6	987.6	987.6	987.6	987.6
2.5°	991.2	988.5	982.1	987.6	984.8
5°	986.7	983.9	979.3	985.7	983.9
7.5°	982.1	978.4	973.9	981.2	979.3
10°	972.9	970.2	967.5	973.9	972.9
12.5°	962.0	961.1	958.3	965.6	964.7
15°	948.3	948.3	946.4	955.6	955.6
17.5°	933.6	932.7	933.6	943.7	942.8
20°	916.2	916.2	917.2	929.0	929.0
22.5°	895.2	896.1	898.9	913.5	912.6
25°	874.2	876.0	881.5	894.3	896.1
27.5°	848.6	853.2	859.6	875.1	876.9
30°	824.8	827.5	837.6	852.2	855.9
32.5°	796.5	801.9	812.9	829.4	833.9
35°	766.3	773.6	786.4	806.5	811.1
37.5°	736.1	742.5	759.9	780.9	789.1
40°	702.3	713.2	731.5	755.3	764.5
42.5°	669.4	680.3	705.0	729.7	737.9
45°	634.6	646.5	673.0	703.2	713.2
47.5°	596.2	609.9	643.8	675.8	686.7
50°	556.9	574.3	611.7	647.4	660.2
52.5°	515.7	537.7	580.7	618.1	630.0
55°	475.5	499.3	548.7	587.1	601.7
57.5°	434.3	460.0	515.7	559.6	567.9
60°	389.5	420.6	481.9	520.3	531.3
62.5°	345.7	381.3	447.2	483.7	492.9
65°	303.6	342.0	411.5	445.3	451.7
67.5°	257.9	303.6	372.2	403.3	405.1
70°	214.0	267.0	333.8	348.4	336.5
72.5°	171.0	227.7	289.0	277.1	267.0
75°	133.5	191.1	235.0	211.2	205.7
77.5°	98.8	156.4	168.3	155.5	145.4
80°	70.4	123.4	113.4	96.9	92.4
82.5°	48.5	77.7	62.2	48.5	42.1
85°	27.4	34.7	21.9	13.7	11.0
87.5°	11.9	8.2	4.6	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)