

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: P307247

Luminaire Tested: **14FCZ2-44-UNV-L82765-HRP-CP250-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: P307247  
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-5500K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.250"  
POLYCARB 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**

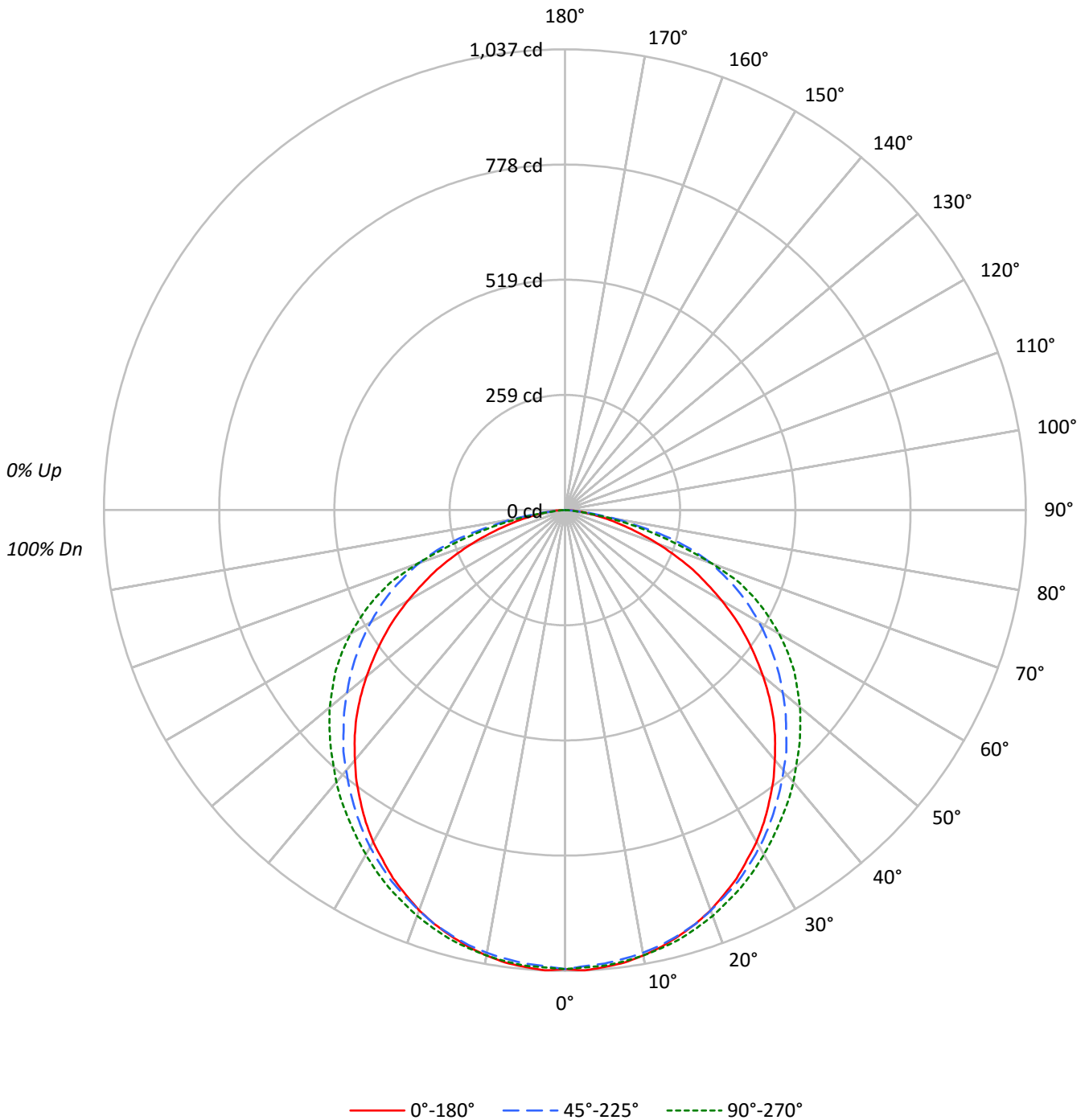
Lumens per Lamp: N/A  
Luminaire Lumens: 3042.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 39.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	2780	2780	2780
5°	2788	2767	2780
10°	2781	2765	2781
15°	2763	2758	2785
20°	2745	2747	2783
25°	2715	2738	2783
30°	2681	2723	2782
35°	2633	2702	2787
40°	2581	2688	2809
45°	2526	2679	2839
50°	2439	2679	2891
55°	2334	2692	2953
60°	2193	2713	2991
65°	2022	2741	3009
70°	1761	2747	2769
75°	1452	2556	2237
80°	1142	1838	1497
85°	886	710	355



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.8	3.2
10°-20°	280.6	9.2
20°-30°	426.2	14.0
30°-40°	516.4	17.0
40°-50°	544.1	17.9
50°-60°	508.0	16.7
60°-70°	406.0	13.3
70°-80°	223.4	7.3
80°-90°	39.4	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°	804.6	26.5
0°-40°	1321.0	43.4
0°-60°	2373.2	78.0
0°-90°	3042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3042.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1033	1033	1033	1033	1033	
5°	1032	1029	1024	1031	1029	98
15°	992	992	990	1000	1000	280
25°	914	916	922	936	937	421
35°	802	809	823	844	848	502
45°	664	676	704	736	746	511
55°	497	522	574	614	629	444
65°	318	358	430	466	472	313
75°	140	200	246	221	215	150
85°	29	36	23	14	12	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1033.1	1033.1	1033.1	1033.1	1033.1
2.5°	1036.9	1034.0	1027.3	1033.1	1030.2
5°	1032.1	1029.3	1024.5	1031.2	1029.3
7.5°	1027.3	1023.5	1018.7	1026.4	1024.5
10°	1017.8	1014.9	1012.0	1018.7	1017.8
12.5°	1006.3	1005.3	1002.5	1010.1	1009.2
15°	991.9	991.9	990.0	999.6	999.6
17.5°	976.6	975.7	976.6	987.2	986.2
20°	958.5	958.5	959.4	971.9	971.9
22.5°	936.5	937.4	940.3	955.6	954.6
25°	914.5	916.4	922.1	935.5	937.4
27.5°	887.7	892.5	899.2	915.4	917.3
30°	862.8	865.7	876.2	891.5	895.3
32.5°	833.2	838.9	850.4	867.6	872.4
35°	801.6	809.2	822.6	843.7	848.5
37.5°	770.0	776.7	794.9	816.9	825.5
40°	734.6	746.1	765.2	790.1	799.7
42.5°	700.2	711.7	737.5	763.3	771.9
45°	663.8	676.3	704.0	735.6	746.1
47.5°	623.7	638.0	673.4	706.9	718.4
50°	582.5	600.7	639.9	677.2	690.6
52.5°	539.5	562.5	607.4	646.6	659.1
55°	497.4	522.3	573.9	614.1	629.4
57.5°	454.4	481.1	539.5	585.4	594.0
60°	407.5	440.0	504.1	544.3	555.8
62.5°	361.6	398.9	467.8	506.0	515.6
65°	317.6	357.8	430.4	465.8	472.5
67.5°	269.7	317.6	389.3	421.8	423.8
70°	223.8	279.3	349.1	364.4	352.0
72.5°	178.9	238.2	302.3	289.8	279.3
75°	139.7	199.9	245.8	221.0	215.2
77.5°	103.3	163.6	176.0	162.6	152.1
80°	73.7	129.1	118.6	101.4	96.6
82.5°	50.7	81.3	65.0	50.7	44.0
85°	28.7	36.3	23.0	14.3	11.5
87.5°	12.4	8.6	4.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)