

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: P307177

Luminaire Tested: **14FCZ2-39-UNV-L82765-HRP-CA125-W2A-U-6500K**

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: P307177
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-CA125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 6500K 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: 2937.0 lumens
Efficiency: N/A
Efficacy: 84.4 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

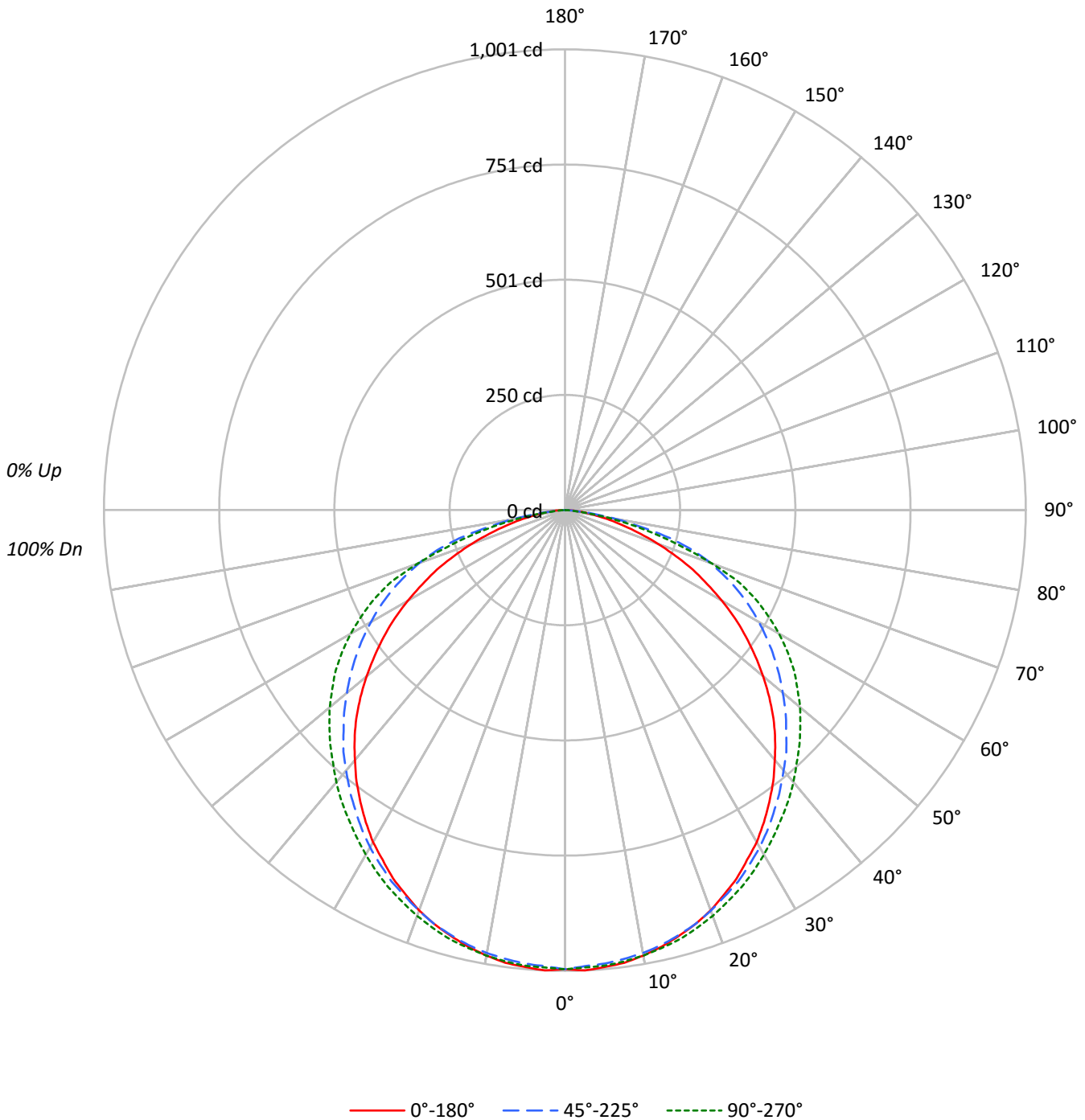
Input Watts (W): 34.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2684	2684	2684
5°	2692	2672	2684
10°	2685	2670	2685
15°	2668	2663	2689
20°	2650	2653	2687
25°	2621	2643	2687
30°	2588	2629	2686
35°	2542	2609	2691
40°	2492	2595	2712
45°	2439	2587	2742
50°	2354	2586	2792
55°	2253	2600	2851
60°	2117	2619	2888
65°	1952	2646	2905
70°	1700	2652	2674
75°	1402	2467	2161
80°	1102	1774	1446
85°	855	685	343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.2
10°-20°	271.0	9.2
20°-30°	411.5	14.0
30°-40°	498.6	17.0
40°-50°	525.4	17.9
50°-60°	490.5	16.7
60°-70°	392.0	13.3
70°-80°	215.7	7.3
80°-90°	38.1	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°	776.9	26.5
0°-40°	1275.4	43.4
0°-60°	2291.3	78.0
0°-90°	2937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	997	997	997	997	997	
5°	996	994	989	996	994	95
15°	958	958	956	965	965	270
25°	883	885	890	903	905	406
35°	774	781	794	815	819	484
45°	641	653	680	710	720	493
55°	480	504	554	593	608	429
65°	307	345	416	450	456	302
75°	135	193	237	213	208	145
85°	28	35	22	14	11	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	997.4	997.4	997.4	997.4	997.4
2.5°	1001.1	998.3	991.9	997.4	994.6
5°	996.5	993.7	989.1	995.6	993.7
7.5°	991.9	988.2	983.6	991.0	989.1
10°	982.6	979.9	977.1	983.6	982.6
12.5°	971.6	970.6	967.9	975.3	974.3
15°	957.7	957.7	955.9	965.1	965.1
17.5°	942.9	942.0	942.9	953.1	952.2
20°	925.4	925.4	926.3	938.3	938.3
22.5°	904.1	905.1	907.8	922.6	921.7
25°	882.9	884.7	890.3	903.2	905.1
27.5°	857.0	861.7	868.1	883.8	885.7
30°	833.0	835.8	846.0	860.7	864.4
32.5°	804.4	809.9	821.0	837.6	842.3
35°	773.9	781.3	794.2	814.6	819.2
37.5°	743.4	749.9	767.5	788.7	797.0
40°	709.3	720.4	738.8	762.8	772.1
42.5°	676.0	687.1	712.0	737.0	745.3
45°	640.9	652.9	679.7	710.2	720.4
47.5°	602.1	616.0	650.2	682.5	693.6
50°	562.4	580.0	617.8	653.9	666.8
52.5°	520.9	543.0	586.4	624.3	636.3
55°	480.2	504.3	554.1	592.9	607.7
57.5°	438.7	464.5	520.9	565.2	573.5
60°	393.4	424.8	486.7	525.5	536.6
62.5°	349.1	385.1	451.6	488.6	497.8
65°	306.6	345.4	415.6	449.8	456.2
67.5°	260.4	306.6	375.9	407.3	409.1
70°	216.1	269.7	337.1	351.9	339.9
72.5°	172.7	230.0	291.8	279.8	269.7
75°	134.8	193.0	237.3	213.3	207.8
77.5°	99.7	157.9	169.9	157.0	146.8
80°	71.1	124.7	114.5	97.9	93.3
82.5°	48.9	78.5	62.8	48.9	42.5
85°	27.7	35.1	22.2	13.9	11.1
87.5°	12.0	8.3	4.6	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)