

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: P307186

Luminaire Tested: **14FCZ2-39-UNV-L82765-HRP-CP125-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: P307186
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-CP125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125"
POLYCARB 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: 2880.0 lumens
Efficiency: N/A
Efficacy: 82.8 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

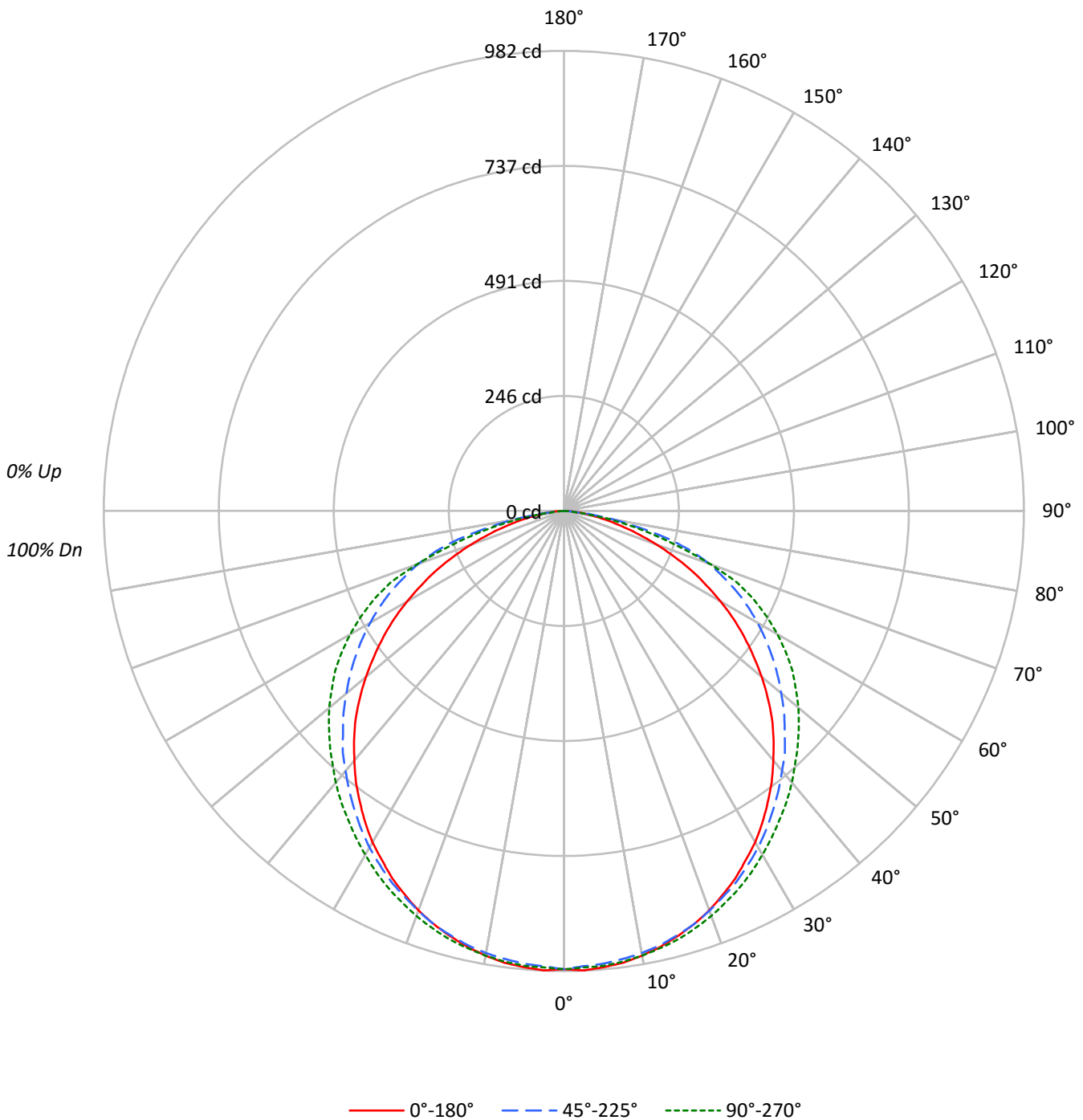
Input Watts (W): 34.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2632	2632	2632
5°	2640	2620	2632
10°	2633	2618	2633
15°	2616	2611	2637
20°	2599	2601	2635
25°	2571	2592	2635
30°	2538	2577	2634
35°	2493	2558	2639
40°	2443	2545	2660
45°	2392	2536	2688
50°	2309	2537	2737
55°	2209	2549	2796
60°	2076	2569	2832
65°	1915	2595	2849
70°	1667	2600	2622
75°	1375	2419	2119
80°	1080	1740	1418
85°	840	670	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	3.2
10°-20°	265.7	9.2
20°-30°	403.5	14.0
30°-40°	488.9	17.0
40°-50°	515.2	17.9
50°-60°	481.0	16.7
60°-70°	384.4	13.3
70°-80°	211.5	7.3
80°-90°	37.3	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°	761.8	26.5
0°-40°	1250.7	43.4
0°-60°	2246.8	78.0
0°-90°	2880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	977	974	970	976	974	93
15°	939	939	937	946	946	265
25°	866	868	873	886	888	399
35°	759	766	779	799	803	475
45°	628	640	666	696	706	484
55°	471	494	543	581	596	420
65°	301	339	408	441	447	296
75°	132	189	233	209	204	142
85°	27	34	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°	978.1	978.1	978.1	978.1	978.1
2.5°	981.7	979.0	972.6	978.1	975.3
5°	977.2	974.4	969.9	976.3	974.4
7.5°	972.6	969.0	964.5	971.7	969.9
10°	963.6	960.9	958.1	964.5	963.6
12.5°	952.7	951.8	949.1	956.3	955.4
15°	939.1	939.1	937.3	946.4	946.4
17.5°	924.6	923.7	924.6	934.6	933.7
20°	907.4	907.4	908.3	920.1	920.1
22.5°	886.6	887.5	890.2	904.7	903.8
25°	865.8	867.6	873.0	885.7	887.5
27.5°	840.4	844.9	851.3	866.7	868.5
30°	816.9	819.6	829.5	844.0	847.7
32.5°	788.8	794.2	805.1	821.4	825.9
35°	758.9	766.1	778.8	798.8	803.3
37.5°	729.0	735.4	752.6	773.4	781.5
40°	695.5	706.4	724.5	748.0	757.1
42.5°	662.9	673.8	698.2	722.7	730.8
45°	628.5	640.3	666.5	696.4	706.4
47.5°	590.5	604.0	637.6	669.2	680.1
50°	551.5	568.7	605.9	641.2	653.9
52.5°	510.8	532.5	575.1	612.2	624.0
55°	470.9	494.5	543.4	581.4	595.9
57.5°	430.2	455.5	510.8	554.2	562.4
60°	385.8	416.6	477.3	515.3	526.2
62.5°	342.3	377.6	442.8	479.1	488.1
65°	300.7	338.7	407.5	441.0	447.4
67.5°	255.4	300.7	368.6	399.4	401.2
70°	211.9	264.4	330.5	345.0	333.3
72.5°	169.3	225.5	286.2	274.4	264.4
75°	132.2	189.3	232.7	209.2	203.8
77.5°	97.8	154.9	166.6	154.0	144.0
80°	69.7	122.3	112.3	96.0	91.5
82.5°	48.0	77.0	61.6	48.0	41.7
85°	27.2	34.4	21.7	13.6	10.9
87.5°	11.8	8.2	4.5	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)