

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: P307214

Luminaire Tested: **14FCZ2-44-UNV-L82765-HRP-CA125-W2A-U-2700K**

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: P307214
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-CA125-W2A-U-2700K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 2700K 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: 2883.0 lumens
Efficiency: N/A
Efficacy: 75.3 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

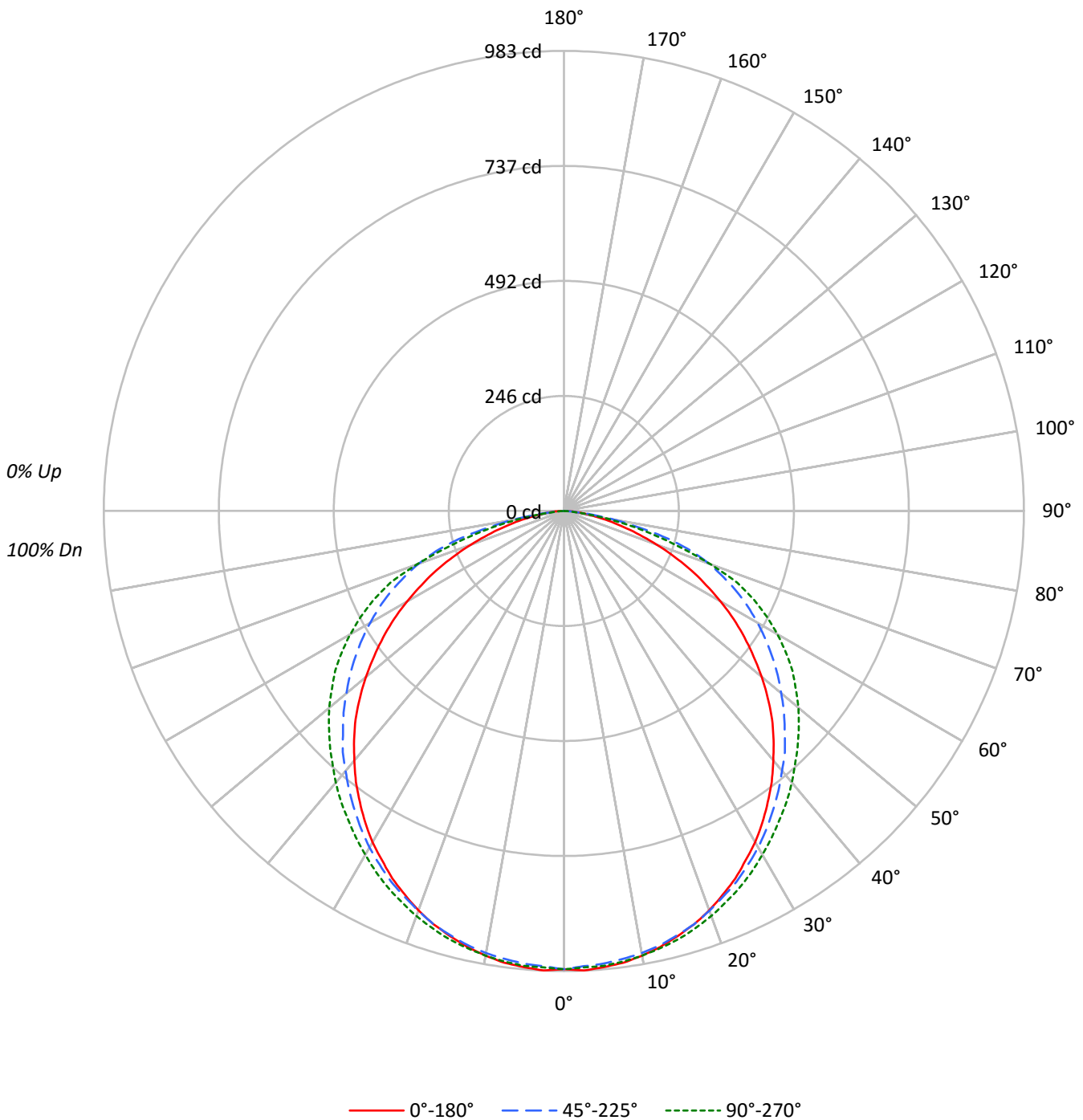
Input Watts (W): 38.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2635	2635	2635
5°	2642	2623	2635
10°	2636	2621	2636
15°	2619	2614	2639
20°	2601	2604	2638
25°	2573	2595	2638
30°	2541	2580	2637
35°	2496	2561	2642
40°	2446	2547	2662
45°	2394	2539	2691
50°	2311	2539	2740
55°	2212	2552	2799
60°	2079	2571	2835
65°	1917	2598	2851
70°	1669	2603	2625
75°	1377	2423	2121
80°	1082	1742	1420
85°	840	673	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	3.2
10°-20°	266.0	9.2
20°-30°	403.9	14.0
30°-40°	489.4	17.0
40°-50°	515.7	17.9
50°-60°	481.5	16.7
60°-70°	384.8	13.3
70°-80°	211.7	7.3
80°-90°	37.4	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°	762.6	26.5
0°-40°	1252.0	43.4
0°-60°	2249.1	78.0
0°-90°	2883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	978	976	971	977	976	93
15°	940	940	938	947	947	265
25°	867	868	874	887	888	399
35°	760	767	780	800	804	475
45°	629	641	667	697	707	484
55°	471	495	544	582	596	421
65°	301	339	408	442	448	296
75°	132	190	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°	979.1	979.1	979.1	979.1	979.1
2.5°	982.7	980.0	973.6	979.1	976.4
5°	978.2	975.5	970.9	977.3	975.5
7.5°	973.6	970.0	965.5	972.7	970.9
10°	964.6	961.9	959.1	965.5	964.6
12.5°	953.7	952.8	950.1	957.3	956.4
15°	940.1	940.1	938.3	947.4	947.4
17.5°	925.6	924.7	925.6	935.6	934.7
20°	908.4	908.4	909.3	921.1	921.1
22.5°	887.5	888.4	891.1	905.7	904.7
25°	866.7	868.5	873.9	886.6	888.4
27.5°	841.3	845.8	852.2	867.6	869.4
30°	817.7	820.4	830.4	844.9	848.5
32.5°	789.6	795.1	805.9	822.2	826.8
35°	759.7	766.9	779.6	799.6	804.1
37.5°	729.8	736.1	753.3	774.2	782.4
40°	696.2	707.1	725.2	748.8	757.9
42.5°	663.6	674.5	699.0	723.4	731.6
45°	629.2	640.9	667.2	697.1	707.1
47.5°	591.1	604.7	638.2	669.9	680.8
50°	552.1	569.3	606.5	641.8	654.5
52.5°	511.3	533.1	575.7	612.8	624.6
55°	471.4	495.0	543.9	582.0	596.5
57.5°	430.6	456.0	511.3	554.8	563.0
60°	386.2	417.0	477.8	515.8	526.7
62.5°	342.7	378.0	443.3	479.6	488.6
65°	301.0	339.1	408.0	441.5	447.8
67.5°	255.6	301.0	369.0	399.8	401.6
70°	212.1	264.7	330.9	345.4	333.6
72.5°	169.5	225.7	286.5	274.7	264.7
75°	132.4	189.5	233.0	209.4	204.0
77.5°	97.9	155.0	166.8	154.1	144.1
80°	69.8	122.4	112.4	96.1	91.6
82.5°	48.0	77.1	61.6	48.0	41.7
85°	27.2	34.4	21.8	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)