

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: P307633

Luminaire Tested: **14FCZ2-29-UNV-L82765-CP125-W2A-U-5000K**

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: P307633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-29-UNV-L82765-CP125-W2A-U-5000K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET
Light Source: (168) 5000K 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: 2818.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

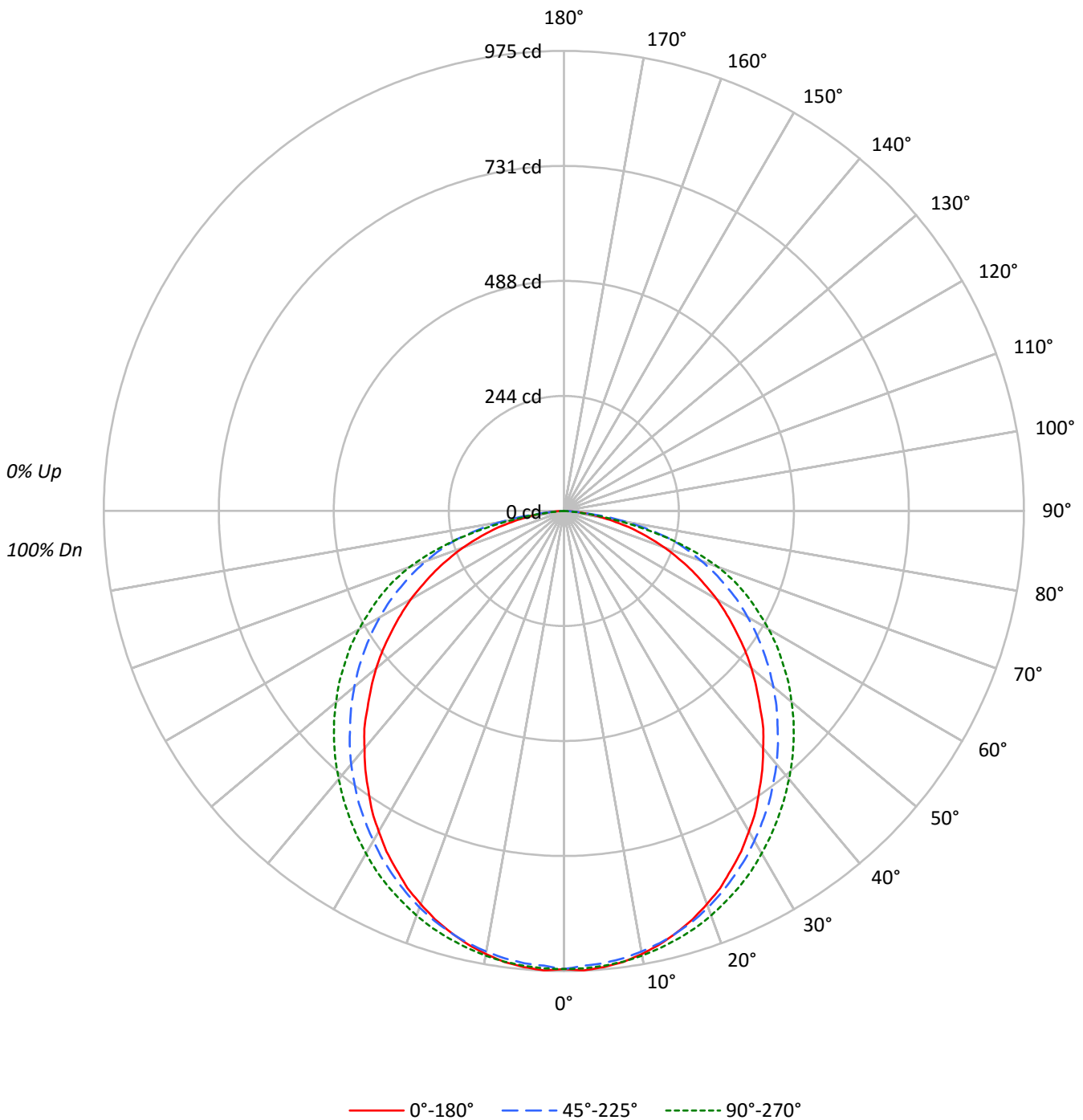
Input Watts (W): 24.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	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	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2612	2612	2612
5°	2621	2599	2614
10°	2605	2591	2615
15°	2577	2579	2613
20°	2539	2561	2613
25°	2491	2535	2610
30°	2437	2509	2605
35°	2372	2487	2603
40°	2309	2463	2607
45°	2238	2437	2621
50°	2173	2425	2638
55°	2090	2418	2662
60°	2016	2421	2699
65°	1913	2429	2741
70°	1795	2447	2739
75°	1627	2469	2476
80°	1334	2132	1762
85°	988	1010	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	3.3
10°-20°	262.4	9.3
20°-30°	395.3	14.0
30°-40°	474.4	16.8
40°-50°	494.4	17.5
50°-60°	457.7	16.2
60°-70°	369.8	13.1
70°-80°	225.5	8.0
80°-90°	46.5	1.7
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°	749.6	26.6
0°-40°	1224.0	43.4
0°-60°	2176.1	77.2
0°-90°	2818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	970	968	962	969	968	92
15°	925	926	926	938	938	261
25°	839	844	854	875	879	387
35°	722	733	757	785	792	452
45°	588	606	640	676	689	455
55°	446	469	515	556	567	399
65°	300	330	381	420	430	297
75°	156	191	238	241	238	164
85°	32	48	33	18	13	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.8	970.8	970.8	970.8	970.8
2.5°	974.6	971.4	964.5	971.4	970.2
5°	970.2	967.7	962.0	968.9	967.7
7.5°	963.9	961.4	956.4	964.5	963.3
10°	953.2	952.0	948.2	957.6	957.0
12.5°	940.6	940.0	938.1	948.8	948.2
15°	924.9	925.6	925.6	938.1	938.1
17.5°	907.3	908.6	911.1	924.9	926.8
20°	886.6	889.1	894.2	909.9	912.4
22.5°	865.2	867.1	874.7	893.5	896.0
25°	838.9	843.9	853.9	875.3	879.1
27.5°	813.7	818.1	831.9	853.9	860.2
30°	784.2	791.1	807.4	831.3	838.2
32.5°	755.9	763.5	782.3	810.0	816.2
35°	722.0	733.3	757.2	784.8	792.4
37.5°	691.2	701.9	728.9	759.1	767.9
40°	657.3	670.5	701.2	733.3	742.1
42.5°	625.8	638.4	671.7	704.4	716.3
45°	588.1	605.7	640.3	676.1	688.7
47.5°	553.6	571.2	610.8	649.1	660.4
50°	519.0	537.9	579.3	618.9	630.2
52.5°	483.2	503.3	547.9	587.5	600.7
55°	445.5	468.8	515.3	555.5	567.4
57.5°	409.7	433.6	483.2	524.0	536.0
60°	374.5	399.0	449.9	488.9	501.4
62.5°	335.5	364.4	417.2	455.6	465.0
65°	300.4	329.9	381.4	419.7	430.4
67.5°	263.3	295.3	346.9	382.0	392.1
70°	228.1	261.4	311.0	343.7	348.1
72.5°	190.4	224.3	274.6	295.3	295.3
75°	156.5	191.0	237.5	241.3	238.1
77.5°	119.4	157.7	187.9	180.3	172.8
80°	86.1	123.8	137.6	123.8	113.7
82.5°	57.8	89.9	82.9	66.0	58.4
85°	32.0	47.8	32.7	18.2	13.2
87.5°	11.9	10.7	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)