

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: P307481

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CA08-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: P307481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
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-RDP-CA08-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC 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: 2774.0 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

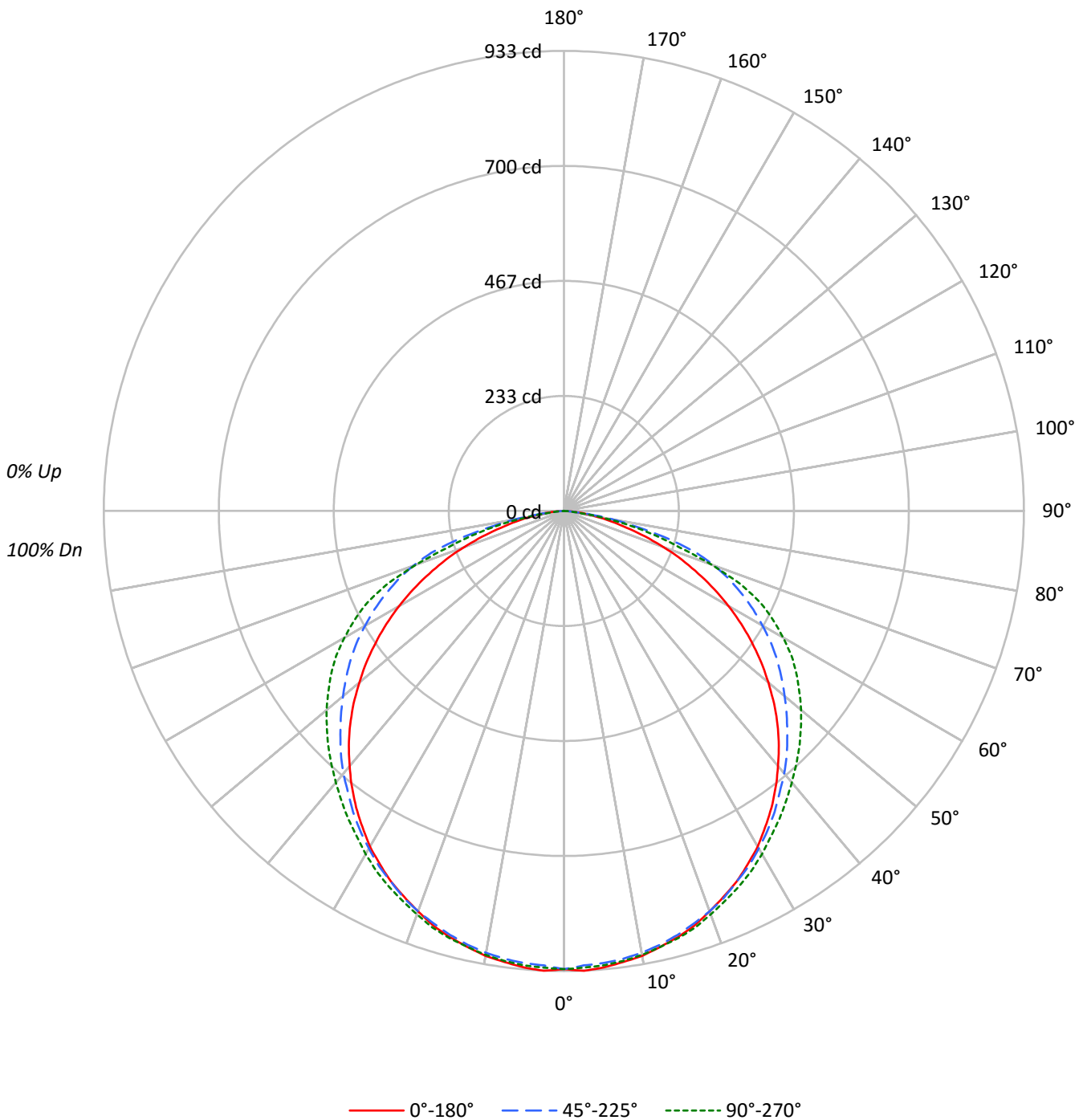
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2500	2500	2500
5°	2510	2486	2498
10°	2503	2485	2497
15°	2492	2480	2498
20°	2475	2475	2493
25°	2463	2463	2495
30°	2443	2456	2497
35°	2412	2447	2504
40°	2374	2442	2526
45°	2332	2439	2571
50°	2267	2448	2629
55°	2184	2479	2703
60°	2075	2506	2763
65°	1917	2537	2799
70°	1704	2556	2505
75°	1373	2297	2004
80°	1074	1612	1309
85°	735	469	333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	3.2
10°-20°	252.3	9.1
20°-30°	384.2	13.8
30°-40°	467.9	16.9
40°-50°	496.4	17.9
50°-60°	468.5	16.9
60°-70°	378.3	13.6
70°-80°	205.2	7.4
80°-90°	33.2	1.2
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°	724.4	26.1
0°-40°	1192.3	43.0
0°-60°	2157.3	77.8
0°-90°	2774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	929	927	920	927	925	88
15°	894	892	890	897	897	252
25°	830	827	830	838	840	382
35°	734	738	745	760	762	459
45°	613	622	641	665	676	472
55°	466	485	528	563	576	416
65°	301	338	398	431	440	298
75°	132	193	221	199	193	144
85°	24	26	15	13	11	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.1	929.1	929.1	929.1	929.1
2.5°	933.4	929.1	922.6	929.1	926.9
5°	929.1	926.9	920.4	926.9	924.8
7.5°	922.6	922.6	916.1	920.4	920.4
10°	916.1	913.9	909.6	916.1	913.9
12.5°	905.3	903.1	900.9	907.4	905.3
15°	894.4	892.3	890.1	896.6	896.6
17.5°	881.4	879.3	877.1	885.8	885.8
20°	864.1	864.1	864.1	872.8	870.6
22.5°	846.8	846.8	849.0	857.6	855.4
25°	829.5	827.3	829.5	838.1	840.3
27.5°	807.8	810.0	812.1	820.8	823.0
30°	786.1	788.3	790.5	801.3	803.5
32.5°	760.2	764.5	768.8	781.8	781.8
35°	734.2	738.5	745.0	760.2	762.3
37.5°	706.0	710.3	719.0	736.3	740.7
40°	675.7	682.2	695.2	712.5	719.0
42.5°	645.4	654.0	669.2	688.7	697.4
45°	612.9	621.6	641.0	664.9	675.7
47.5°	578.2	589.1	612.9	643.2	651.9
50°	541.4	556.6	584.7	617.2	628.1
52.5°	504.6	521.9	556.6	591.2	602.1
55°	465.6	485.1	528.4	563.1	576.1
57.5°	426.6	448.3	498.1	534.9	547.9
60°	385.5	411.5	465.6	502.4	513.3
62.5°	344.3	374.7	433.1	470.0	478.6
65°	301.0	337.8	398.5	431.0	439.6
67.5°	259.9	303.2	363.8	387.7	387.7
70°	216.6	264.2	324.9	331.4	318.4
72.5°	173.3	227.4	281.5	257.7	246.9
75°	132.1	192.7	220.9	199.2	192.7
77.5°	99.6	155.9	155.9	142.9	138.6
80°	69.3	119.1	104.0	91.0	84.5
82.5°	45.5	67.1	54.1	43.3	36.8
85°	23.8	26.0	15.2	13.0	10.8
87.5°	8.7	4.3	2.2	4.3	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)