

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: P307483

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CA08-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: P307483
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-6500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" 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: 2788.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

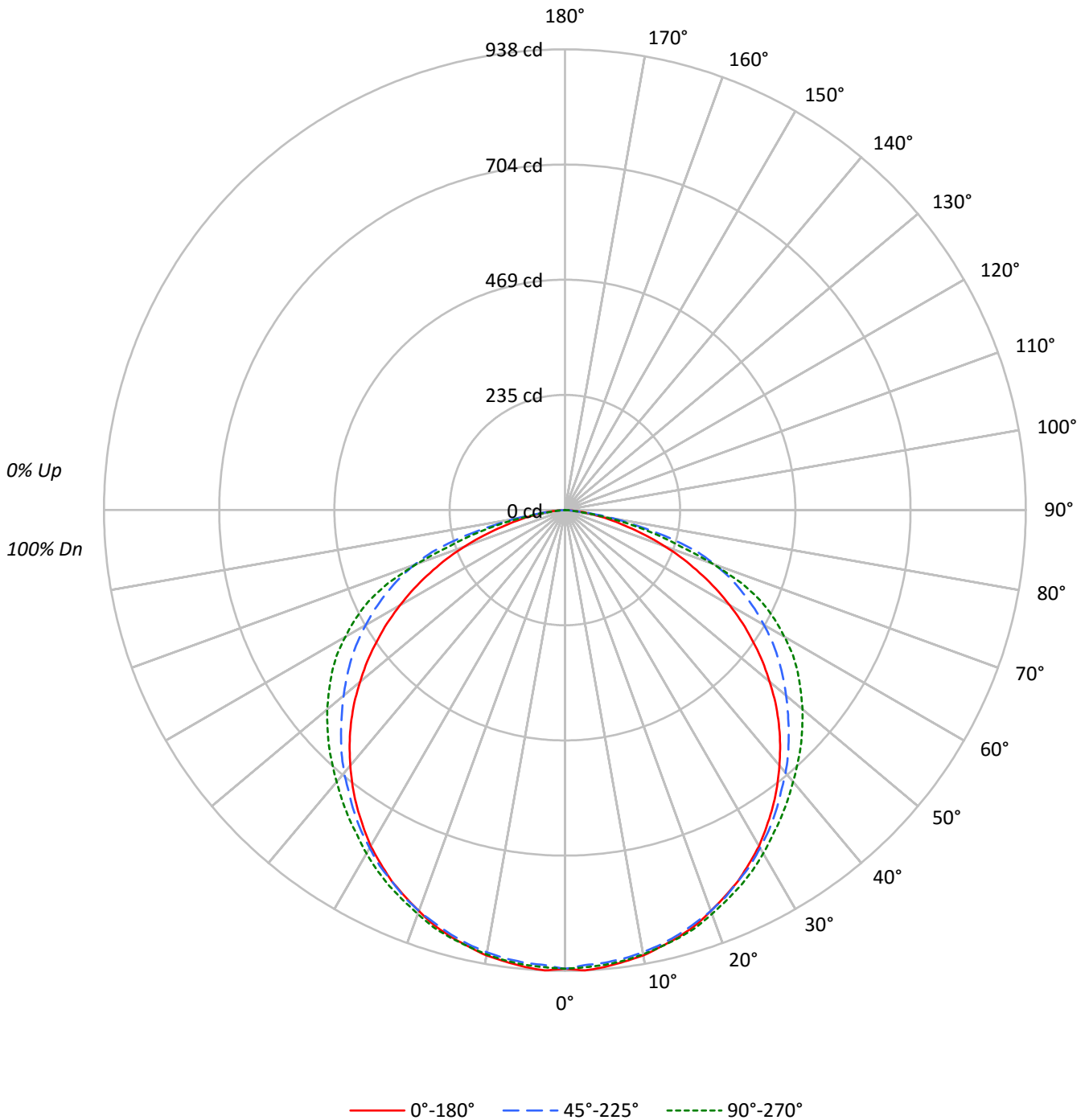
Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2513	2513	2513
5°	2522	2499	2511
10°	2516	2498	2510
15°	2504	2492	2510
20°	2487	2487	2506
25°	2475	2475	2507
30°	2455	2469	2509
35°	2424	2460	2517
40°	2386	2454	2538
45°	2344	2452	2584
50°	2278	2460	2642
55°	2196	2492	2716
60°	2085	2519	2777
65°	1927	2550	2814
70°	1713	2569	2518
75°	1381	2308	2014
80°	1080	1619	1316
85°	738	469	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.2
10°-20°	253.6	9.1
20°-30°	386.1	13.8
30°-40°	470.3	16.9
40°-50°	498.9	17.9
50°-60°	470.9	16.9
60°-70°	380.2	13.6
70°-80°	206.2	7.4
80°-90°	33.4	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°	728.1	26.1
0°-40°	1198.4	43.0
0°-60°	2168.2	77.8
0°-90°	2788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	934	932	925	932	929	89
15°	899	897	895	901	901	254
25°	834	832	834	842	844	384
35°	738	742	749	764	766	461
45°	616	625	644	668	679	474
55°	468	488	531	566	579	418
65°	303	340	400	433	442	300
75°	133	194	222	200	194	145
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°	933.8	933.8	933.8	933.8	933.8
2.5°	938.1	933.8	927.2	933.8	931.6
5°	933.8	931.6	925.1	931.6	929.4
7.5°	927.2	927.2	920.7	925.1	925.1
10°	920.7	918.5	914.2	920.7	918.5
12.5°	909.8	907.7	905.5	912.0	909.8
15°	898.9	896.8	894.6	901.1	901.1
17.5°	885.9	883.7	881.5	890.2	890.2
20°	868.5	868.5	868.5	877.2	875.0
22.5°	851.1	851.1	853.2	861.9	859.8
25°	833.6	831.5	833.6	842.4	844.5
27.5°	811.9	814.1	816.2	824.9	827.1
30°	790.1	792.3	794.5	805.4	807.5
32.5°	764.0	768.3	772.7	785.8	785.8
35°	737.9	742.2	748.8	764.0	766.2
37.5°	709.6	713.9	722.6	740.1	744.4
40°	679.1	685.6	698.7	716.1	722.6
42.5°	648.6	657.3	672.6	692.2	700.9
45°	616.0	624.7	644.3	668.2	679.1
47.5°	581.2	592.0	616.0	646.5	655.2
50°	544.2	559.4	587.7	620.3	631.2
52.5°	507.2	524.6	559.4	594.2	605.1
55°	468.0	487.6	531.1	565.9	579.0
57.5°	428.8	450.6	500.6	537.6	550.7
60°	387.4	413.6	468.0	505.0	515.9
62.5°	346.1	376.6	435.3	472.3	481.0
65°	302.6	339.6	400.5	433.1	441.9
67.5°	261.2	304.7	365.7	389.6	389.6
70°	217.7	265.5	326.5	333.0	320.0
72.5°	174.1	228.5	283.0	259.0	248.1
75°	132.8	193.7	222.0	200.2	193.7
77.5°	100.1	156.7	156.7	143.7	139.3
80°	69.7	119.7	104.5	91.4	84.9
82.5°	45.7	67.5	54.4	43.5	37.0
85°	23.9	26.1	15.2	13.1	10.9
87.5°	8.7	4.4	2.2	4.4	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)