

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: P307363

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-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: P307363
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: 14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-5000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 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: 1809.0 lumens
Efficiency: N/A
Efficacy: 74.1 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

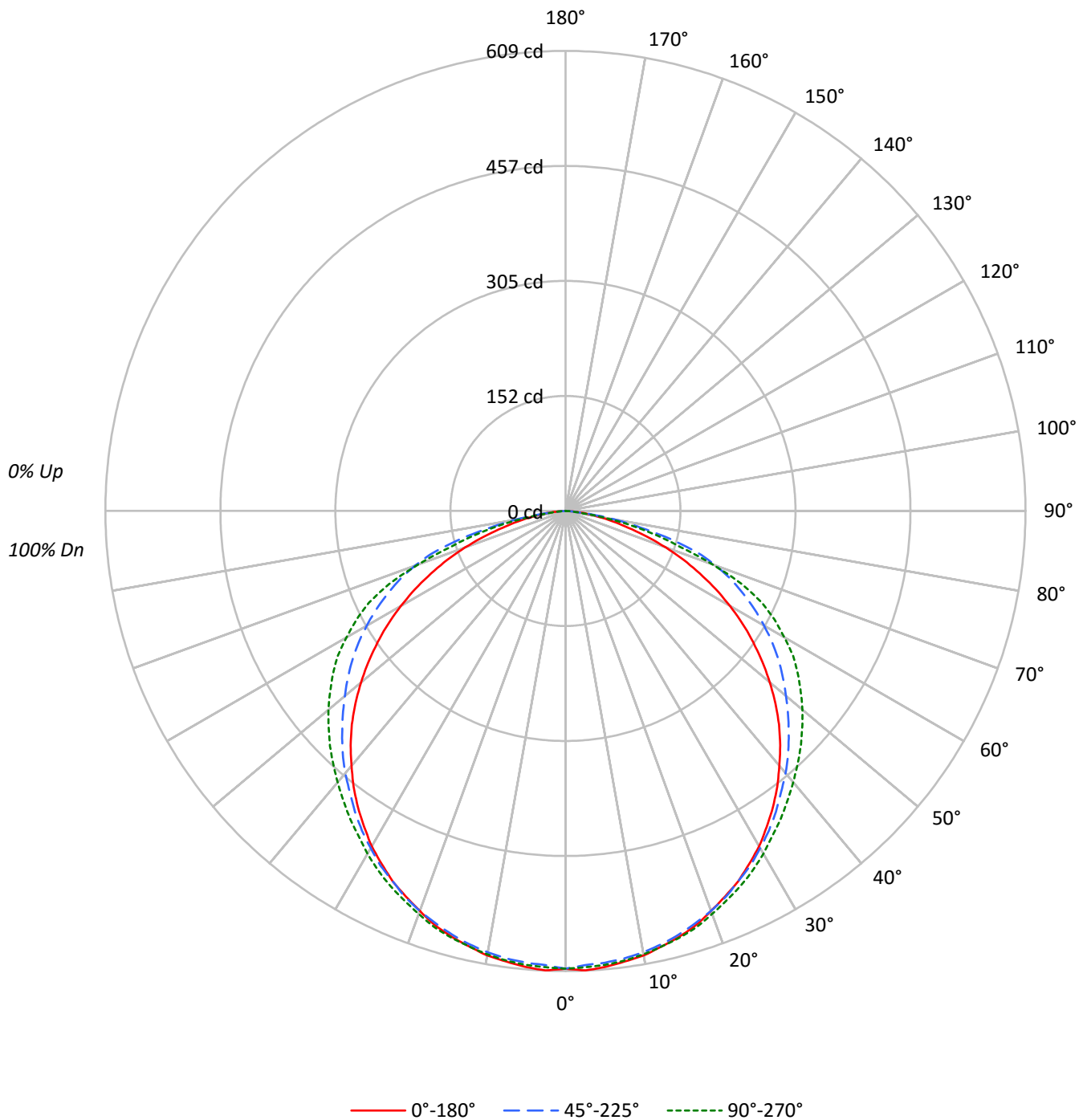
Input Watts (W): 24.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1630	1630	1630
5°	1637	1621	1629
10°	1632	1621	1629
15°	1625	1617	1629
20°	1614	1614	1626
25°	1606	1606	1627
30°	1593	1602	1628
35°	1573	1596	1633
40°	1548	1593	1647
45°	1521	1591	1677
50°	1478	1596	1715
55°	1424	1617	1763
60°	1353	1634	1801
65°	1250	1655	1826
70°	1111	1666	1633
75°	896	1498	1307
80°	700	1051	854
85°	479	306	219



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.2
10°-20°	164.5	9.1
20°-30°	250.5	13.8
30°-40°	305.1	16.9
40°-50°	323.7	17.9
50°-60°	305.5	16.9
60°-70°	246.7	13.6
70°-80°	133.8	7.4
80°-90°	21.6	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°	472.4	26.1
0°-40°	777.6	43.0
0°-60°	1406.8	77.8
0°-90°	1809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1809.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	606	604	600	604	603	58
15°	583	582	580	585	585	165
25°	541	540	541	547	548	249
35°	479	482	486	496	497	299
45°	400	405	418	434	441	308
55°	304	316	345	367	376	271
65°	196	220	260	281	287	195
75°	86	126	144	130	126	94
85°	16	17	10	8	7	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	605.9	605.9	605.9	605.9	605.9
2.5°	608.7	605.9	601.6	605.9	604.5
5°	605.9	604.5	600.2	604.5	603.1
7.5°	601.6	601.6	597.4	600.2	600.2
10°	597.4	596.0	593.2	597.4	596.0
12.5°	590.3	588.9	587.5	591.8	590.3
15°	583.3	581.9	580.5	584.7	584.7
17.5°	574.8	573.4	572.0	577.6	577.6
20°	563.5	563.5	563.5	569.2	567.7
22.5°	552.2	552.2	553.6	559.3	557.9
25°	540.9	539.5	540.9	546.6	548.0
27.5°	526.8	528.2	529.6	535.3	536.7
30°	512.7	514.1	515.5	522.6	524.0
32.5°	495.7	498.5	501.4	509.8	509.8
35°	478.8	481.6	485.8	495.7	497.1
37.5°	460.4	463.2	468.9	480.2	483.0
40°	440.6	444.9	453.4	464.6	468.9
42.5°	420.9	426.5	436.4	449.1	454.8
45°	399.7	405.3	418.0	433.6	440.6
47.5°	377.1	384.1	399.7	419.5	425.1
50°	353.1	363.0	381.3	402.5	409.6
52.5°	329.1	340.4	363.0	385.6	392.6
55°	303.6	316.4	344.6	367.2	375.7
57.5°	278.2	292.3	324.8	348.8	357.3
60°	251.4	268.3	303.6	327.7	334.7
62.5°	224.6	244.3	282.5	306.5	312.1
65°	196.3	220.3	259.9	281.0	286.7
67.5°	169.5	197.7	237.3	252.8	252.8
70°	141.2	172.3	211.8	216.1	207.6
72.5°	113.0	148.3	183.6	168.1	161.0
75°	86.2	125.7	144.1	129.9	125.7
77.5°	65.0	101.7	101.7	93.2	90.4
80°	45.2	77.7	67.8	59.3	55.1
82.5°	29.7	43.8	35.3	28.2	24.0
85°	15.5	16.9	9.9	8.5	7.1
87.5°	5.6	2.8	1.4	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)