

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: P307040

Luminaire Tested: **14FCZ2-25-UNV-L82765-HRP-CA125-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: P307040
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: 14FCZ2-25-UNV-L82765-HRP-CA125-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" 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: 1843.0 lumens
Efficiency: N/A
Efficacy: 91.2 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

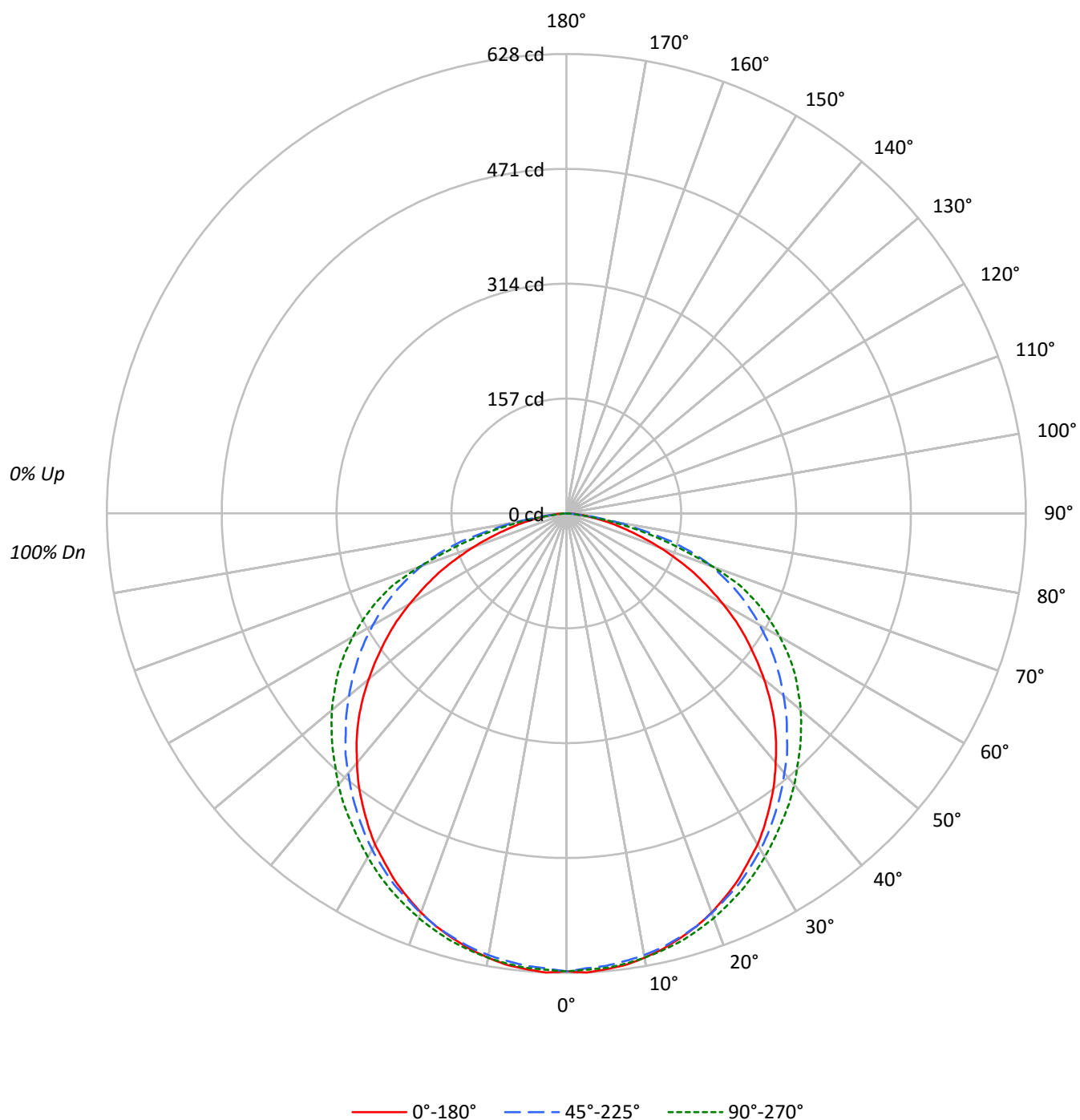
Input Watts (W): 20.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	78	96	88	82	77	85	79	75		82	77	73		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	69	56	47	40	68	55	46	40	53	45	40		51	45	39		37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		26
10	52	39	31	26	51	38	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1684	1684	1684
5°	1689	1677	1685
10°	1685	1675	1685
15°	1674	1671	1687
20°	1663	1665	1686
25°	1645	1659	1686
30°	1624	1649	1685
35°	1595	1637	1689
40°	1564	1629	1702
45°	1531	1623	1720
50°	1477	1623	1752
55°	1414	1631	1789
60°	1329	1644	1812
65°	1225	1661	1823
70°	1067	1664	1678
75°	880	1548	1356
80°	691	1114	907
85°	537	429	216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	3.2
10°-20°	170.0	9.2
20°-30°	258.2	14.0
30°-40°	312.8	17.0
40°-50°	329.7	17.9
50°-60°	307.8	16.7
60°-70°	246.0	13.3
70°-80°	135.3	7.3
80°-90°	23.9	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°	487.5	26.5
0°-40°	800.3	43.4
0°-60°	1437.8	78.0
0°-90°	1843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1843.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	625	624	621	625	624	59
15°	601	601	600	606	606	170
25°	554	555	559	567	568	255
35°	486	490	498	511	514	304
45°	402	410	426	446	452	309
55°	301	316	348	372	381	269
65°	192	217	261	282	286	189
75°	85	121	149	134	130	91
85°	17	22	14	9	7	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	625.9	625.9	625.9	625.9	625.9
2.5°	628.2	626.5	622.4	625.9	624.2
5°	625.3	623.6	620.7	624.7	623.6
7.5°	622.4	620.1	617.2	621.8	620.7
10°	616.6	614.9	613.1	617.2	616.6
12.5°	609.7	609.1	607.3	612.0	611.4
15°	601.0	601.0	599.8	605.6	605.6
17.5°	591.7	591.1	591.7	598.1	597.5
20°	580.7	580.7	581.3	588.8	588.8
22.5°	567.4	567.9	569.7	579.0	578.4
25°	554.0	555.2	558.7	566.8	567.9
27.5°	537.8	540.7	544.8	554.6	555.8
30°	522.7	524.5	530.8	540.1	542.4
32.5°	504.8	508.2	515.2	525.6	528.5
35°	485.6	490.3	498.4	511.1	514.0
37.5°	466.5	470.6	481.6	494.9	500.1
40°	445.1	452.0	463.6	478.7	484.5
42.5°	424.2	431.2	446.8	462.5	467.7
45°	402.2	409.7	426.5	445.7	452.0
47.5°	377.9	386.5	408.0	428.3	435.2
50°	352.9	363.9	387.7	410.3	418.4
52.5°	326.9	340.8	368.0	391.8	399.3
55°	301.4	316.4	347.7	372.1	381.3
57.5°	275.3	291.5	326.9	354.7	359.9
60°	246.9	266.6	305.4	329.8	336.7
62.5°	219.1	241.7	283.4	306.6	312.4
65°	192.4	216.7	260.8	282.2	286.3
67.5°	163.4	192.4	235.9	255.6	256.7
70°	135.6	169.2	211.5	220.8	213.3
72.5°	108.4	144.3	183.1	175.6	169.2
75°	84.6	121.1	148.9	133.9	130.4
77.5°	62.6	99.1	106.6	98.5	92.1
80°	44.6	78.2	71.9	61.4	58.5
82.5°	30.7	49.3	39.4	30.7	26.7
85°	17.4	22.0	13.9	8.7	7.0
87.5°	7.5	5.2	2.9	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)