

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: P307026

Luminaire Tested: **14FCZ2-25-UNV-L82765-HRP-CA08-W2A-U-3000K**

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: P307026  
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-CA08-W2A-U-3000K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.08" ACRYLIC SHEET  
Light Source: (168) 3000K 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**

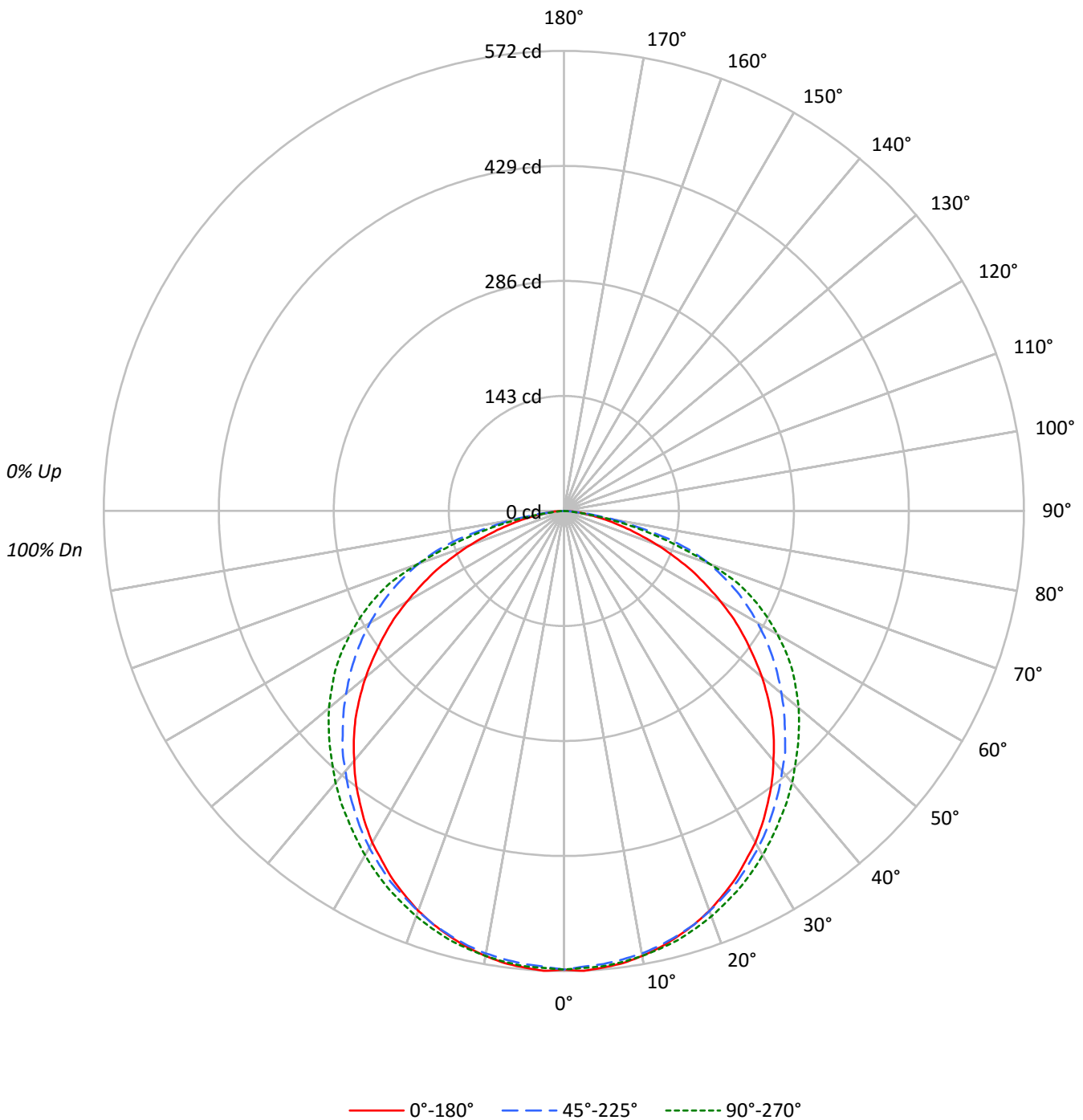
Lumens per Lamp: N/A  
Luminaire Lumens: 1679.0 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



TEST NUMBER: P307026

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-HRP-CA08-W2A-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P307026

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-HRP-CA08-W2A-U-3000K

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1534	1534	1534
5°	1539	1527	1535
10°	1535	1526	1535
15°	1525	1522	1537
20°	1515	1516	1536
25°	1499	1511	1536
30°	1480	1503	1536
35°	1453	1491	1538
40°	1424	1484	1551
45°	1394	1479	1567
50°	1346	1479	1596
55°	1288	1486	1630
60°	1210	1497	1651
65°	1116	1513	1661
70°	972	1516	1529
75°	802	1411	1235
80°	631	1015	826
85°	488	392	195



TEST NUMBER: P307026

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-HRP-CA08-W2A-U-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.0	3.2
10°-20°	154.9	9.2
20°-30°	235.2	14.0
30°-40°	285.0	17.0
40°-50°	300.3	17.9
50°-60°	280.4	16.7
60°-70°	224.1	13.3
70°-80°	123.3	7.3
80°-90°	21.8	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°	444.1	26.4
0°-40°	729.1	43.4
0°-60°	1309.9	78.0
0°-90°	1679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	570	568	565	569	568	54
15°	548	548	546	552	552	155
25°	505	506	509	516	517	232
35°	442	447	454	466	468	277
45°	366	373	389	406	412	282
55°	274	288	317	339	347	245
65°	175	198	238	257	261	173
75°	77	110	136	122	119	83
85°	16	20	13	8	6	19
90°	0	0	0	0	0	



TEST NUMBER: P307026

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-HRP-CA08-W2A-U-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	570.2	570.2	570.2	570.2	570.2
2.5°	572.3	570.7	567.0	570.2	568.6
5°	569.7	568.1	565.4	569.1	568.1
7.5°	567.0	564.9	562.3	566.5	565.4
10°	561.7	560.2	558.6	562.3	561.7
12.5°	555.4	554.9	553.3	557.5	557.0
15°	547.5	547.5	546.4	551.7	551.7
17.5°	539.0	538.5	539.0	544.9	544.3
20°	529.0	529.0	529.5	536.4	536.4
22.5°	516.9	517.4	519.0	527.4	526.9
25°	504.7	505.8	509.0	516.3	517.4
27.5°	489.9	492.6	496.3	505.3	506.3
30°	476.2	477.8	483.6	492.1	494.2
32.5°	459.9	463.0	469.4	478.9	481.5
35°	442.4	446.7	454.0	465.7	468.3
37.5°	425.0	428.7	438.7	450.9	455.6
40°	405.5	411.8	422.4	436.1	441.4
42.5°	386.5	392.8	407.1	421.3	426.1
45°	366.4	373.3	388.6	406.0	411.8
47.5°	344.2	352.1	371.7	390.2	396.5
50°	321.5	331.6	353.2	373.8	381.2
52.5°	297.8	310.4	335.3	356.9	363.8
55°	274.5	288.3	316.8	339.0	347.4
57.5°	250.8	265.6	297.8	323.1	327.9
60°	224.9	242.9	278.2	300.4	306.7
62.5°	199.6	220.2	258.2	279.3	284.6
65°	175.3	197.5	237.6	257.1	260.8
67.5°	148.9	175.3	214.9	232.8	233.9
70°	123.5	154.2	192.7	201.2	194.3
72.5°	98.7	131.5	166.8	160.0	154.2
75°	77.1	110.3	135.7	122.0	118.8
77.5°	57.0	90.3	97.1	89.8	83.9
80°	40.7	71.3	65.5	56.0	53.3
82.5°	28.0	44.9	35.9	28.0	24.3
85°	15.8	20.1	12.7	7.9	6.3
87.5°	6.9	4.8	2.6	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)