

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: P307359

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CP125-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: P307359  
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-3000K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB 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**

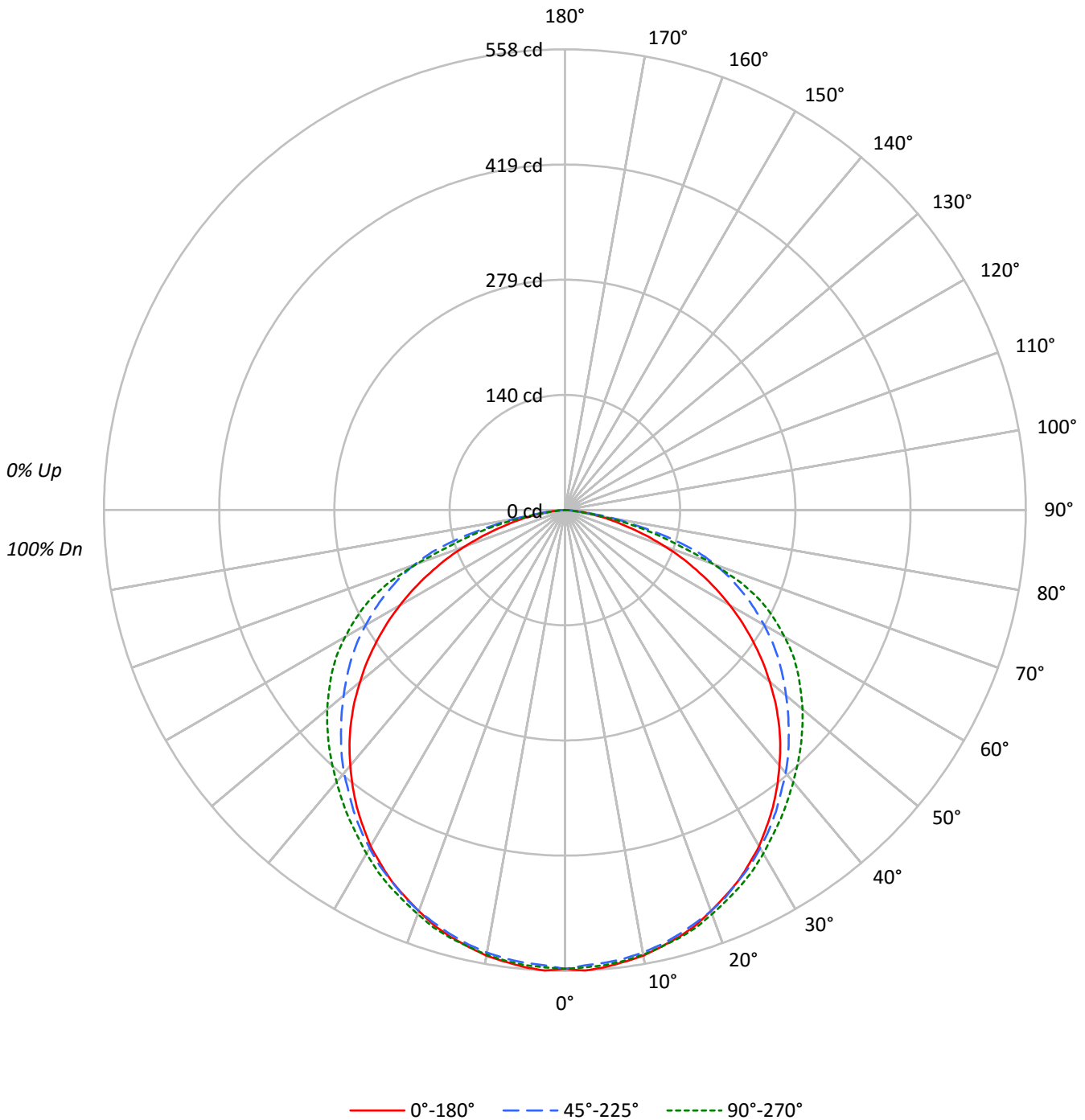
Lumens per Lamp: N/A  
Luminaire Lumens: 1659.0 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P307359

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P307359

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-RDP-CP125-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	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°	1495	1495	1495
5°	1501	1487	1494
10°	1497	1486	1494
15°	1490	1483	1494
20°	1480	1480	1491
25°	1473	1473	1492
30°	1461	1469	1493
35°	1442	1464	1498
40°	1420	1461	1511
45°	1395	1459	1538
50°	1356	1464	1572
55°	1307	1483	1616
60°	1241	1499	1652
65°	1146	1517	1674
70°	1019	1529	1498
75°	821	1373	1199
80°	642	964	783
85°	438	281	201



TEST NUMBER: P307359

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.6	3.2
10°-20°	150.9	9.1
20°-30°	229.8	13.8
30°-40°	279.8	16.9
40°-50°	296.9	17.9
50°-60°	280.2	16.9
60°-70°	226.2	13.6
70°-80°	122.7	7.4
80°-90°	19.9	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°	433.2	26.1
0°-40°	713.1	43.0
0°-60°	1290.2	77.8
0°-90°	1659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1659.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	556	554	550	554	553	53
15°	535	534	532	536	536	151
25°	496	495	496	501	502	228
35°	439	442	446	455	456	275
45°	366	372	383	398	404	282
55°	278	290	316	337	344	249
65°	180	202	238	258	263	178
75°	79	115	132	119	115	86
85°	14	16	9	8	6	18
90°	0	0	0	0	0	



TEST NUMBER: P307359

CATALOG NUMBER: 14FC22-29-UNV-L82765-RDP-CP125-W2A-U-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	555.6	555.6	555.6	555.6	555.6
2.5°	558.2	555.6	551.8	555.6	554.3
5°	555.6	554.3	550.5	554.3	553.1
7.5°	551.8	551.8	547.9	550.5	550.5
10°	547.9	546.6	544.0	547.9	546.6
12.5°	541.4	540.1	538.8	542.7	541.4
15°	534.9	533.6	532.3	536.2	536.2
17.5°	527.1	525.9	524.6	529.7	529.7
20°	516.8	516.8	516.8	522.0	520.7
22.5°	506.4	506.4	507.7	512.9	511.6
25°	496.1	494.8	496.1	501.2	502.5
27.5°	483.1	484.4	485.7	490.9	492.2
30°	470.2	471.5	472.7	479.2	480.5
32.5°	454.6	457.2	459.8	467.6	467.6
35°	439.1	441.7	445.5	454.6	455.9
37.5°	422.2	424.8	430.0	440.4	443.0
40°	404.1	408.0	415.8	426.1	430.0
42.5°	386.0	391.2	400.2	411.9	417.1
45°	366.5	371.7	383.4	397.6	404.1
47.5°	345.8	352.3	366.5	384.7	389.9
50°	323.8	332.9	349.7	369.1	375.6
52.5°	301.8	312.1	332.9	353.6	360.1
55°	278.5	290.1	316.0	336.8	344.5
57.5°	255.2	268.1	297.9	319.9	327.7
60°	230.5	246.1	278.5	300.5	307.0
62.5°	205.9	224.1	259.0	281.1	286.2
65°	180.0	202.1	238.3	257.7	262.9
67.5°	155.4	181.3	217.6	231.8	231.8
70°	129.5	158.0	194.3	198.2	190.4
72.5°	103.6	136.0	168.4	154.1	147.7
75°	79.0	115.3	132.1	119.2	115.3
77.5°	59.6	93.3	93.3	85.5	82.9
80°	41.4	71.2	62.2	54.4	50.5
82.5°	27.2	40.2	32.4	25.9	22.0
85°	14.2	15.5	9.1	7.8	6.5
87.5°	5.2	2.6	1.3	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)