

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: P307365

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-5700K**

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: P307365  
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-5700K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET  
Light Source: (168) 5700K 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**

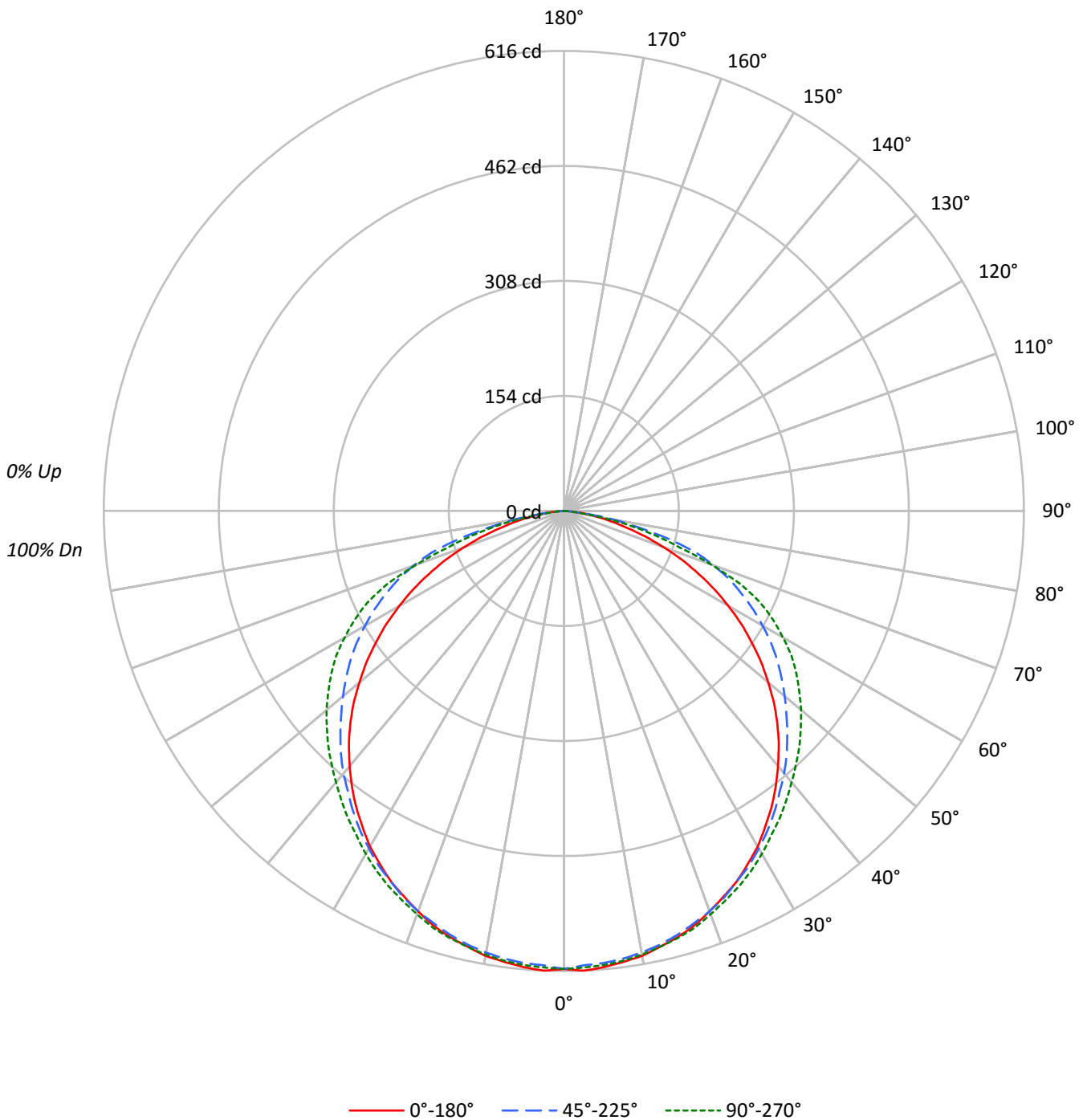
Lumens per Lamp: N/A  
Luminaire Lumens: 1831.0 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 24.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1650	1650	1650
5°	1656	1641	1649
10°	1652	1641	1648
15°	1645	1637	1649
20°	1633	1633	1646
25°	1626	1626	1647
30°	1612	1621	1648
35°	1592	1615	1653
40°	1567	1612	1667
45°	1539	1610	1697
50°	1496	1616	1736
55°	1442	1636	1784
60°	1369	1654	1823
65°	1265	1675	1848
70°	1124	1687	1653
75°	907	1516	1323
80°	708	1063	863
85°	485	309	219



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.0	3.2
10°-20°	166.5	9.1
20°-30°	253.6	13.8
30°-40°	308.9	16.9
40°-50°	327.7	17.9
50°-60°	309.3	16.9
60°-70°	249.7	13.6
70°-80°	135.4	7.4
80°-90°	21.9	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°	478.2	26.1
0°-40°	787.0	43.0
0°-60°	1423.9	77.8
0°-90°	1831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1831.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	613	613	613	613	613	
5°	613	612	608	612	610	58
15°	590	589	588	592	592	167
25°	548	546	548	553	555	252
35°	485	488	492	502	503	303
45°	404	410	423	439	446	312
55°	307	320	349	372	380	275
65°	199	223	263	284	290	197
75°	87	127	146	132	127	95
85°	16	17	10	9	7	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	613.2	613.2	613.2	613.2	613.2
2.5°	616.1	613.2	609.0	613.2	611.8
5°	613.2	611.8	607.5	611.8	610.4
7.5°	609.0	609.0	604.7	607.5	607.5
10°	604.7	603.2	600.4	604.7	603.2
12.5°	597.5	596.1	594.7	599.0	597.5
15°	590.4	588.9	587.5	591.8	591.8
17.5°	581.8	580.4	578.9	584.7	584.7
20°	570.4	570.4	570.4	576.1	574.7
22.5°	558.9	558.9	560.4	566.1	564.6
25°	547.5	546.1	547.5	553.2	554.6
27.5°	533.2	534.6	536.1	541.8	543.2
30°	518.9	520.3	521.8	528.9	530.3
32.5°	501.7	504.6	507.5	516.0	516.0
35°	484.6	487.5	491.7	501.7	503.2
37.5°	466.0	468.9	474.6	486.0	488.9
40°	446.0	450.3	458.9	470.3	474.6
42.5°	426.0	431.7	441.7	454.6	460.3
45°	404.5	410.3	423.1	438.9	446.0
47.5°	381.7	388.8	404.5	424.6	430.3
50°	357.4	367.4	386.0	407.4	414.6
52.5°	333.1	344.5	367.4	390.2	397.4
55°	307.3	320.2	348.8	371.7	380.2
57.5°	281.6	295.9	328.8	353.1	361.7
60°	254.4	271.6	307.3	331.6	338.8
62.5°	227.3	247.3	285.9	310.2	315.9
65°	198.7	223.0	263.0	284.5	290.2
67.5°	171.5	200.1	240.2	255.9	255.9
70°	142.9	174.4	214.4	218.7	210.1
72.5°	114.4	150.1	185.8	170.1	163.0
75°	87.2	127.2	145.8	131.5	127.2
77.5°	65.8	102.9	102.9	94.3	91.5
80°	45.7	78.6	68.6	60.0	55.7
82.5°	30.0	44.3	35.7	28.6	24.3
85°	15.7	17.2	10.0	8.6	7.1
87.5°	5.7	2.9	1.4	2.9	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)