

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: P307563

Luminaire Tested: **14FCZ2-20-UNV-L82765-CP250-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: P307563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-20-UNV-L82765-CP250-W2A-U-5700K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.250" 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

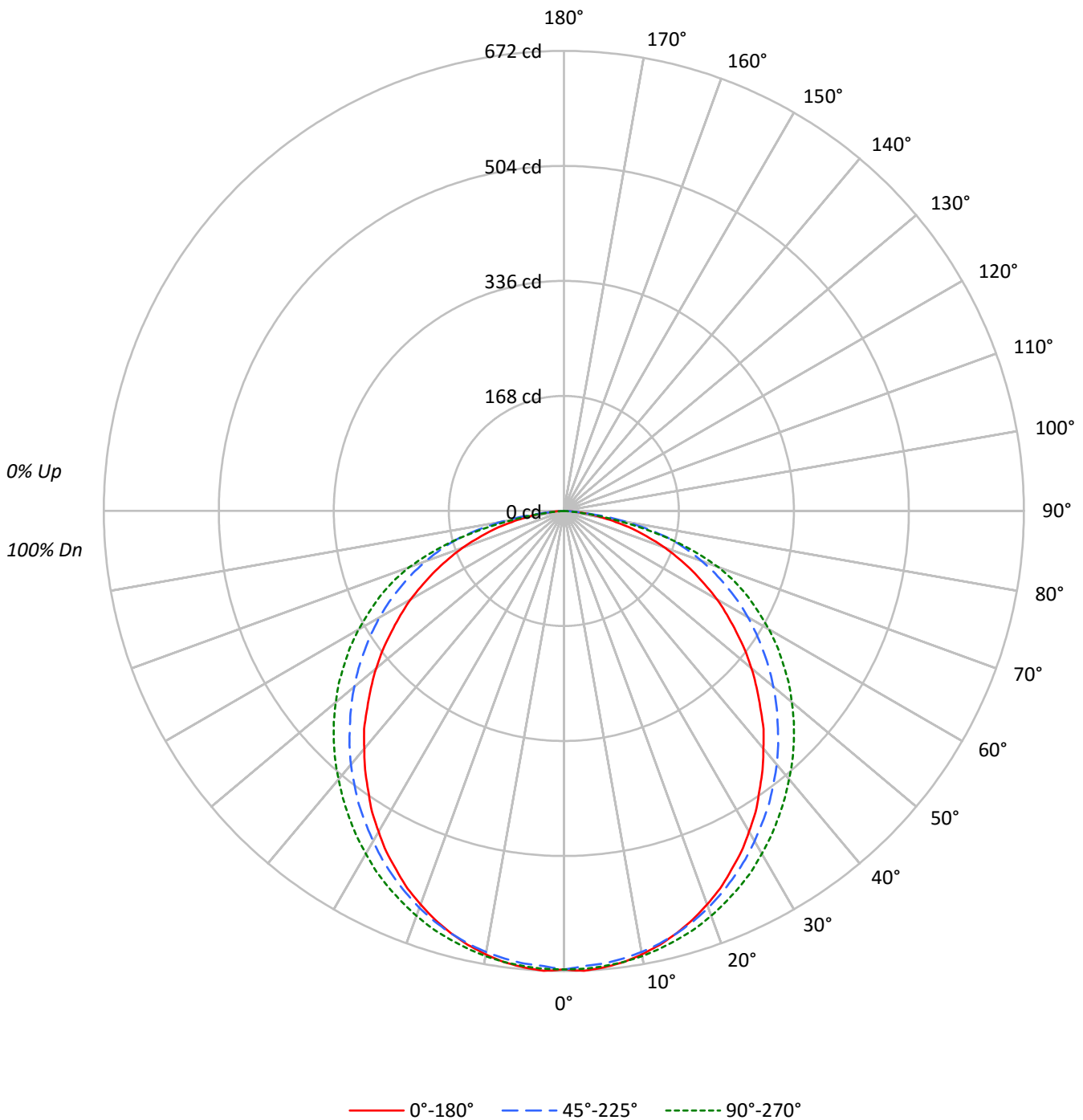
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1944.0 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 17  
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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	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	39	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	1802	1802	1802
5°	1808	1793	1803
10°	1797	1787	1804
15°	1778	1779	1803
20°	1751	1766	1802
25°	1718	1749	1801
30°	1681	1731	1797
35°	1636	1716	1796
40°	1593	1700	1798
45°	1544	1681	1808
50°	1499	1673	1820
55°	1442	1667	1836
60°	1390	1671	1862
65°	1319	1675	1890
70°	1238	1688	1889
75°	1122	1704	1708
80°	921	1471	1216
85°	682	695	281



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.4	3.3
10°-20°	181.0	9.3
20°-30°	272.7	14.0
30°-40°	327.2	16.8
40°-50°	341.1	17.5
50°-60°	315.8	16.2
60°-70°	255.1	13.1
70°-80°	155.6	8.0
80°-90°	32.1	1.7
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°	517.1	26.6
0°-40°	844.4	43.4
0°-60°	1501.2	77.2
0°-90°	1944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1944.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	669	668	664	668	668	64
15°	638	638	638	647	647	180
25°	579	582	589	604	606	267
35°	498	506	522	541	547	312
45°	406	418	442	466	475	314
55°	307	323	355	383	391	275
65°	207	228	263	290	297	205
75°	108	132	164	166	164	113
85°	22	33	22	13	9	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	669.7	669.7	669.7	669.7	669.7
2.5°	672.3	670.1	665.4	670.1	669.3
5°	669.3	667.5	663.6	668.4	667.5
7.5°	664.9	663.2	659.7	665.4	664.5
10°	657.6	656.7	654.1	660.6	660.2
12.5°	648.9	648.5	647.2	654.5	654.1
15°	638.1	638.5	638.5	647.2	647.2
17.5°	625.9	626.8	628.5	638.1	639.4
20°	611.6	613.4	616.8	627.7	629.4
22.5°	596.9	598.2	603.4	616.4	618.1
25°	578.7	582.2	589.1	603.8	606.4
27.5°	561.3	564.4	573.9	589.1	593.4
30°	541.0	545.7	557.0	573.5	578.3
32.5°	521.5	526.7	539.7	558.7	563.1
35°	498.1	505.9	522.3	541.4	546.6
37.5°	476.8	484.2	502.8	523.6	529.7
40°	453.4	462.5	483.8	505.9	511.9
42.5°	431.7	440.4	463.4	485.9	494.2
45°	405.7	417.9	441.7	466.4	475.1
47.5°	381.9	394.0	421.3	447.8	455.6
50°	358.0	371.1	399.7	427.0	434.8
52.5°	333.3	347.2	378.0	405.3	414.4
55°	307.3	323.4	355.4	383.2	391.4
57.5°	282.6	299.1	333.3	361.5	369.8
60°	258.3	275.3	310.4	337.2	345.9
62.5°	231.5	251.4	287.8	314.3	320.8
65°	207.2	227.6	263.1	289.6	296.9
67.5°	181.6	203.7	239.3	263.6	270.5
70°	157.4	180.3	214.6	237.1	240.1
72.5°	131.3	154.7	189.4	203.7	203.7
75°	107.9	131.8	163.9	166.5	164.3
77.5°	82.4	108.8	129.6	124.4	119.2
80°	59.4	85.4	94.9	85.4	78.5
82.5°	39.9	62.0	57.2	45.5	40.3
85°	22.1	32.9	22.5	12.6	9.1
87.5°	8.2	7.4	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)