

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: P307546

Luminaire Tested: **14FCZ2-20-UNV-L82765-CP125-W2A-U-6500K**

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: P307546  
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-CP125-W2A-U-6500K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET  
Light Source: (168) 6500K 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**

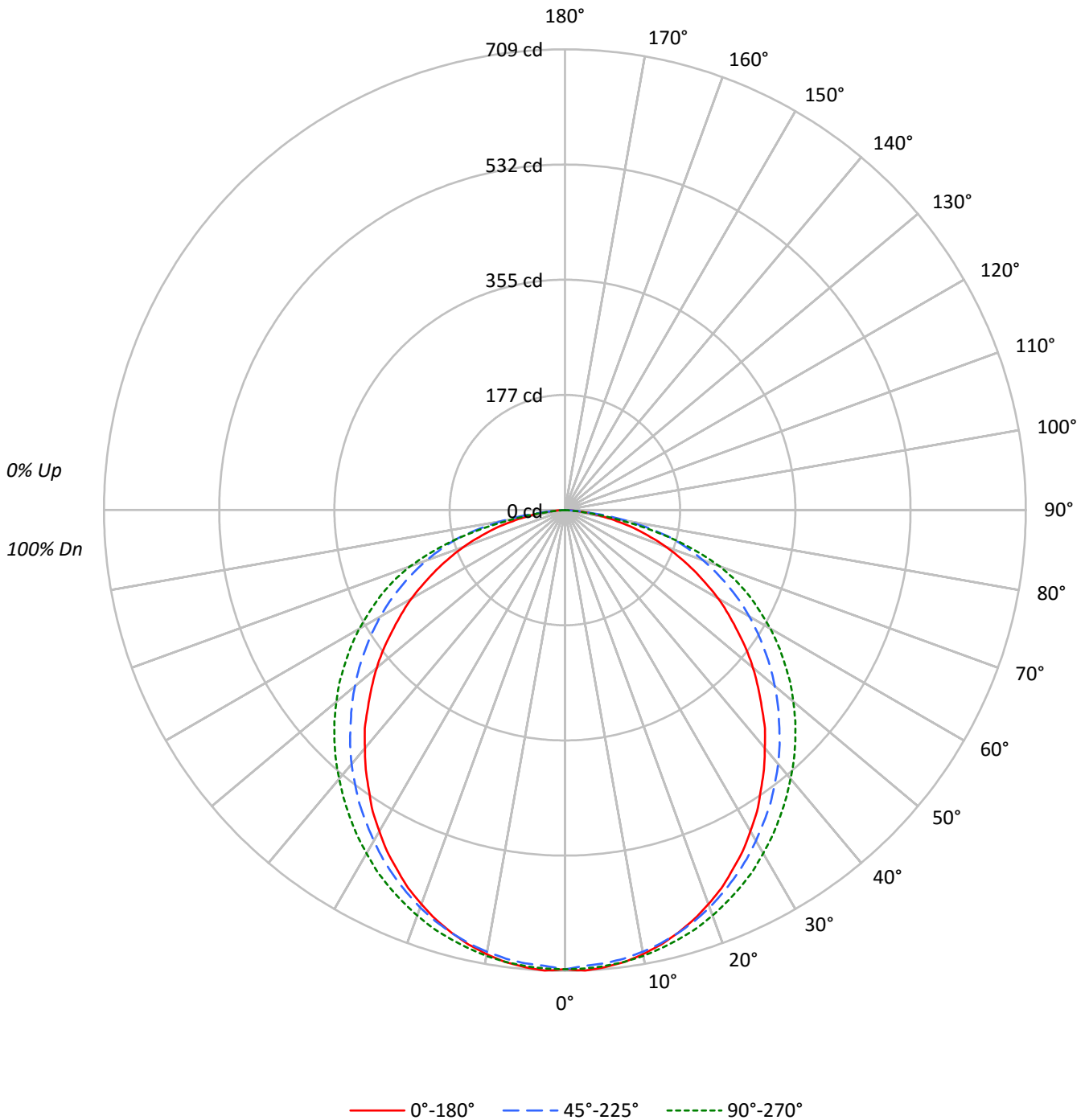
Lumens per Lamp: N/A  
Luminaire Lumens: 2051.0 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 17.2  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	1901	1901	1901
5°	1907	1891	1902
10°	1896	1886	1903
15°	1875	1877	1902
20°	1848	1864	1901
25°	1813	1845	1900
30°	1773	1826	1896
35°	1726	1810	1895
40°	1681	1793	1897
45°	1629	1773	1907
50°	1582	1765	1920
55°	1521	1759	1938
60°	1467	1762	1964
65°	1392	1768	1995
70°	1306	1781	1994
75°	1184	1798	1802
80°	972	1553	1283
85°	719	735	296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.9	3.3
10°-20°	191.0	9.3
20°-30°	287.7	14.0
30°-40°	345.3	16.8
40°-50°	359.9	17.5
50°-60°	333.1	16.2
60°-70°	269.2	13.1
70°-80°	164.1	8.0
80°-90°	33.9	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°	545.6	26.6
0°-40°	890.8	43.4
0°-60°	1583.8	77.2
0°-90°	2051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2051.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	706	704	700	705	704	67
15°	673	674	674	683	683	190
25°	610	614	622	637	640	281
35°	526	534	551	571	577	329
45°	428	441	466	492	501	331
55°	324	341	375	404	413	291
65°	219	240	278	306	313	216
75°	114	139	173	176	173	120
85°	23	35	24	13	10	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	706.6	706.6	706.6	706.6	706.6
2.5°	709.3	707.0	702.0	707.0	706.1
5°	706.1	704.3	700.2	705.2	704.3
7.5°	701.5	699.7	696.1	702.0	701.1
10°	693.8	692.9	690.1	697.0	696.5
12.5°	684.6	684.2	682.8	690.6	690.1
15°	673.2	673.6	673.6	682.8	682.8
17.5°	660.4	661.3	663.1	673.2	674.6
20°	645.3	647.1	650.8	662.2	664.0
22.5°	629.7	631.1	636.6	650.3	652.2
25°	610.5	614.2	621.5	637.1	639.8
27.5°	592.2	595.4	605.5	621.5	626.1
30°	570.7	575.8	587.7	605.0	610.1
32.5°	550.2	555.7	569.4	589.5	594.1
35°	525.5	533.7	551.1	571.2	576.7
37.5°	503.1	510.8	530.5	552.5	558.9
40°	478.4	488.0	510.4	533.7	540.1
42.5°	455.5	464.6	488.9	512.7	521.4
45°	428.1	440.9	466.0	492.1	501.2
47.5°	402.9	415.7	444.5	472.4	480.7
50°	377.8	391.5	421.7	450.5	458.7
52.5°	351.7	366.3	398.8	427.6	437.2
55°	324.2	341.2	375.0	404.3	413.0
57.5°	298.2	315.6	351.7	381.4	390.1
60°	272.6	290.4	327.4	355.8	365.0
62.5°	244.2	265.3	303.7	331.6	338.4
65°	218.6	240.1	277.6	305.5	313.3
67.5°	191.6	214.9	252.4	278.1	285.4
70°	166.0	190.2	226.4	250.2	253.4
72.5°	138.6	163.3	199.9	214.9	214.9
75°	113.9	139.0	172.9	175.6	173.3
77.5°	86.9	114.8	136.7	131.3	125.8
80°	62.7	90.1	100.2	90.1	82.8
82.5°	42.1	65.4	60.4	48.0	42.5
85°	23.3	34.8	23.8	13.3	9.6
87.5°	8.7	7.8	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)