

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: P307584

Luminaire Tested: **14FCZ2-25-UNV-L82765-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: P307584  
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: 14FCZ2-25-UNV-L82765-CP125-W2A-U-3000K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 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**

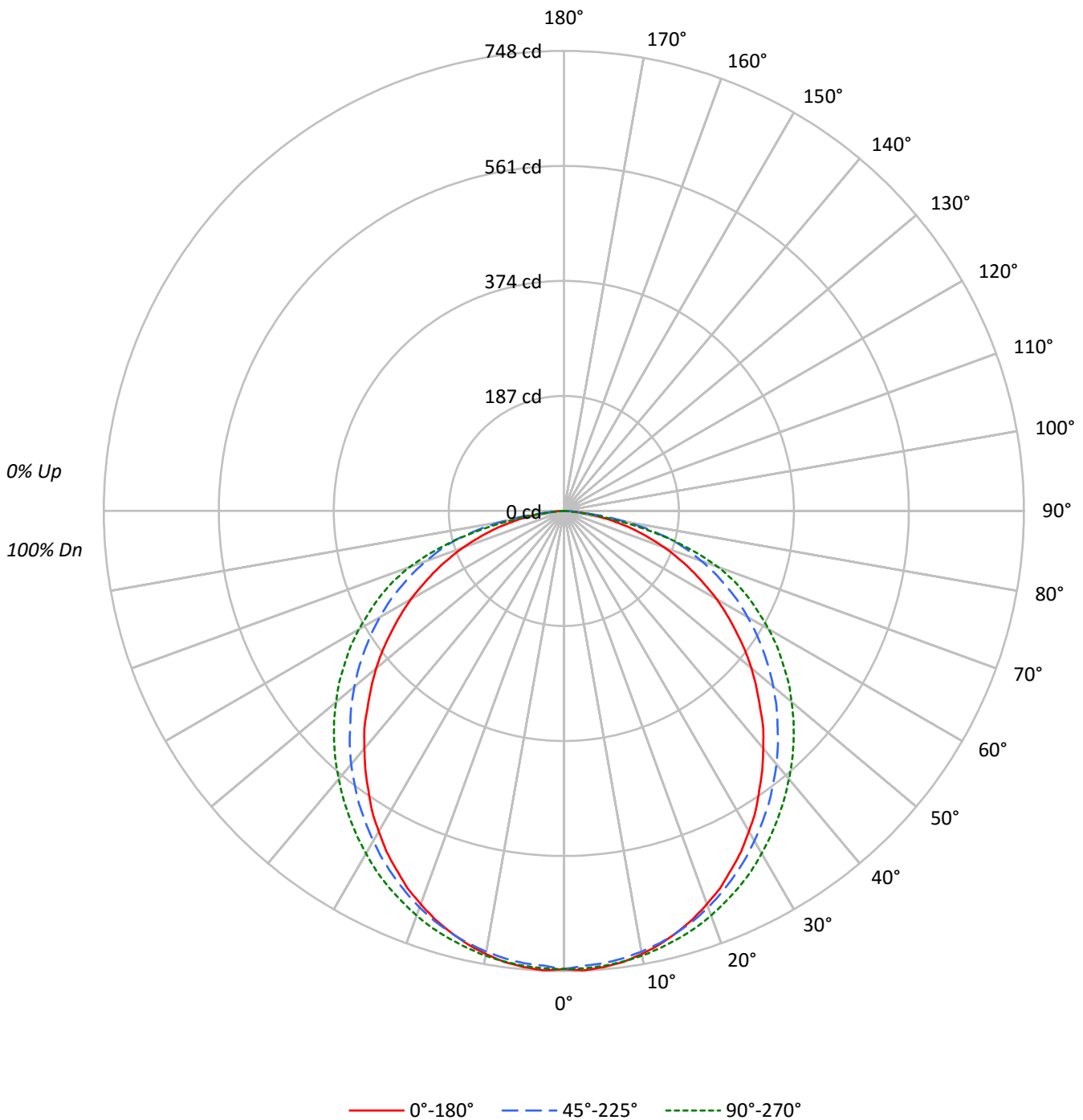
Lumens per Lamp: N/A  
Luminaire Lumens: 2162.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.5  
Input Voltage (V): NR  
Input Current (A<sub>in</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	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°	2004	2004	2004
5°	2011	1994	2005
10°	1998	1988	2006
15°	1977	1978	2005
20°	1948	1964	2005
25°	1911	1945	2002
30°	1869	1925	1998
35°	1820	1908	1997
40°	1772	1890	2000
45°	1717	1869	2011
50°	1667	1861	2024
55°	1604	1855	2042
60°	1546	1858	2070
65°	1467	1863	2103
70°	1377	1877	2102
75°	1248	1894	1900
80°	1023	1636	1353
85°	760	775	312



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.5	3.3
10°-20°	201.3	9.3
20°-30°	303.3	14.0
30°-40°	363.9	16.8
40°-50°	379.3	17.5
50°-60°	351.2	16.2
60°-70°	283.7	13.1
70°-80°	173.0	8.0
80°-90°	35.7	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°	575.1	26.6
0°-40°	939.0	43.4
0°-60°	1669.5	77.2
0°-90°	2162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2162.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	745	745	745	745	745	
5°	744	742	738	743	742	71
15°	710	710	710	720	720	200
25°	644	647	655	672	674	297
35°	554	563	581	602	608	347
45°	451	465	491	519	528	349
55°	342	360	395	426	435	306
65°	230	253	293	322	330	228
75°	120	147	182	185	183	126
85°	25	37	25	14	10	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	744.8	744.8	744.8	744.8	744.8
2.5°	747.7	745.3	740.0	745.3	744.3
5°	744.3	742.4	738.1	743.4	742.4
7.5°	739.5	737.6	733.7	740.0	739.0
10°	731.3	730.4	727.5	734.7	734.2
12.5°	721.7	721.2	719.7	727.9	727.5
15°	709.6	710.1	710.1	719.7	719.7
17.5°	696.1	697.1	699.0	709.6	711.1
20°	680.2	682.1	686.0	698.1	700.0
22.5°	663.8	665.3	671.1	685.5	687.4
25°	643.6	647.4	655.1	671.5	674.4
27.5°	624.3	627.7	638.3	655.1	660.0
30°	601.6	606.9	619.5	637.8	643.1
32.5°	579.9	585.7	600.2	621.4	626.2
35°	553.9	562.6	580.9	602.1	607.9
37.5°	530.3	538.5	559.2	582.4	589.1
40°	504.3	514.4	538.0	562.6	569.3
42.5°	480.2	489.8	515.3	540.4	549.6
45°	451.2	464.7	491.2	518.7	528.4
47.5°	424.7	438.2	468.6	498.0	506.7
50°	398.2	412.7	444.5	474.9	483.5
52.5°	370.7	386.1	420.4	450.7	460.9
55°	341.8	359.6	395.3	426.2	435.3
57.5°	314.3	332.6	370.7	402.1	411.2
60°	287.3	306.1	345.2	375.1	384.7
62.5°	257.4	279.6	320.1	349.5	356.7
65°	230.4	253.1	292.6	322.0	330.2
67.5°	202.0	226.6	266.1	293.1	300.8
70°	175.0	200.5	238.6	263.7	267.1
72.5°	146.1	172.1	210.7	226.6	226.6
75°	120.0	146.6	182.2	185.1	182.7
77.5°	91.6	121.0	144.1	138.4	132.6
80°	66.0	95.0	105.6	95.0	87.3
82.5°	44.4	68.9	63.6	50.6	44.8
85°	24.6	36.6	25.1	14.0	10.1
87.5°	9.2	8.2	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)