

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: P307815

Luminaire Tested: **14FCZ2-20-UNV-L82765-S-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: P307815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
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-S-CP125-W2A-U-5700K  
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 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**

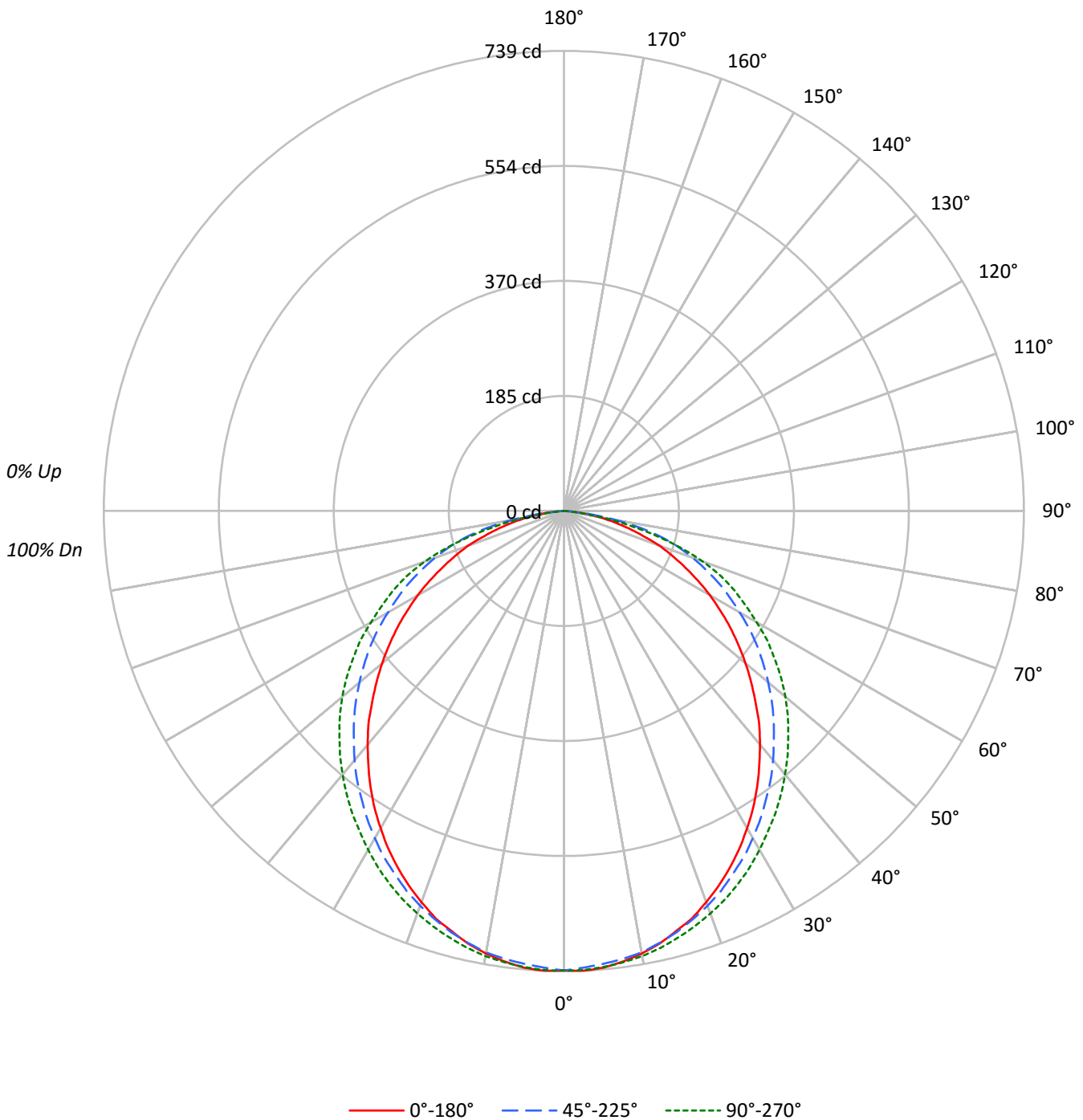
Lumens per Lamp: N/A  
Luminaire Lumens: 2068.0 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 17  
Input Voltage (V): NR  
Input Current (A<sub>in</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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	1986	1986	1986
5°	1989	1972	1986
10°	1972	1967	1984
15°	1945	1951	1977
20°	1914	1932	1970
25°	1875	1909	1964
30°	1829	1886	1953
35°	1779	1859	1947
40°	1722	1837	1942
45°	1658	1815	1939
50°	1597	1794	1945
55°	1530	1780	1939
60°	1457	1755	1926
65°	1371	1750	1926
70°	1291	1734	1872
75°	1120	1695	1599
80°	905	1367	1065
85°	602	475	318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	3.4
10°-20°	198.4	9.6
20°-30°	297.6	14.4
30°-40°	355.0	17.2
40°-50°	367.0	17.7
50°-60°	335.0	16.2
60°-70°	263.7	12.7
70°-80°	153.5	7.4
80°-90°	28.3	1.4
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°	565.6	27.4
0°-40°	920.6	44.5
0°-60°	1622.6	78.5
0°-90°	2068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2068.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	736	734	730	736	735	70
15°	698	699	700	710	710	197
25°	632	635	643	658	661	291
35°	541	549	566	588	593	338
45°	436	450	477	503	510	337
55°	326	344	379	407	413	292
65°	215	238	275	296	302	214
75°	108	133	163	160	154	114
85°	20	28	15	12	10	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	738.2	738.2	738.2	738.2	738.2
2.5°	739.3	737.2	734.1	739.3	738.2
5°	736.2	734.1	730.0	736.2	735.2
7.5°	730.0	728.0	725.9	732.1	731.1
10°	721.8	720.8	719.8	727.0	725.9
12.5°	711.6	711.6	710.6	718.8	718.8
15°	698.3	699.3	700.3	709.5	709.5
17.5°	685.9	684.9	688.0	698.3	699.3
20°	668.5	670.6	674.7	687.0	688.0
22.5°	651.1	653.1	660.3	672.6	675.7
25°	631.6	634.7	642.9	658.3	661.3
27.5°	611.1	615.2	626.5	642.9	646.0
30°	588.5	594.7	607.0	625.5	628.5
32.5°	566.0	572.1	587.5	606.0	610.1
35°	541.4	548.6	566.0	587.5	592.6
37.5°	515.7	525.0	545.5	567.0	573.2
40°	490.1	500.4	522.9	545.5	552.7
42.5°	464.5	474.7	499.3	525.0	532.1
45°	435.8	450.1	476.8	503.4	509.6
47.5°	408.1	423.5	453.2	479.9	488.1
50°	381.4	396.8	428.6	456.3	464.5
52.5°	353.7	370.1	404.0	432.7	439.9
55°	326.1	343.5	379.4	407.1	413.2
57.5°	298.4	316.8	353.7	380.4	387.6
60°	270.7	290.2	326.1	352.7	357.8
62.5°	243.0	263.5	300.4	324.0	329.1
65°	215.3	237.9	274.8	296.3	302.5
67.5°	188.7	211.2	247.1	267.6	272.7
70°	164.1	184.6	220.4	235.8	237.9
72.5°	133.3	158.9	193.8	202.0	196.9
75°	107.7	133.3	163.0	160.0	153.8
77.5°	82.0	107.7	127.1	116.9	108.7
80°	58.4	84.1	88.2	72.8	68.7
82.5°	37.9	58.4	49.2	37.9	30.8
85°	19.5	27.7	15.4	12.3	10.3
87.5°	6.2	4.1	2.1	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)