

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: P307259

Luminaire Tested: **14FCZ2-20-UNV-L82765-RDP-CA125-W2A-U-2700K**

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: P307259  
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: 14FCZ2-20-UNV-L82765-RDP-CA125-W2A-U-2700K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET  
Light Source: (168) 2700K 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**

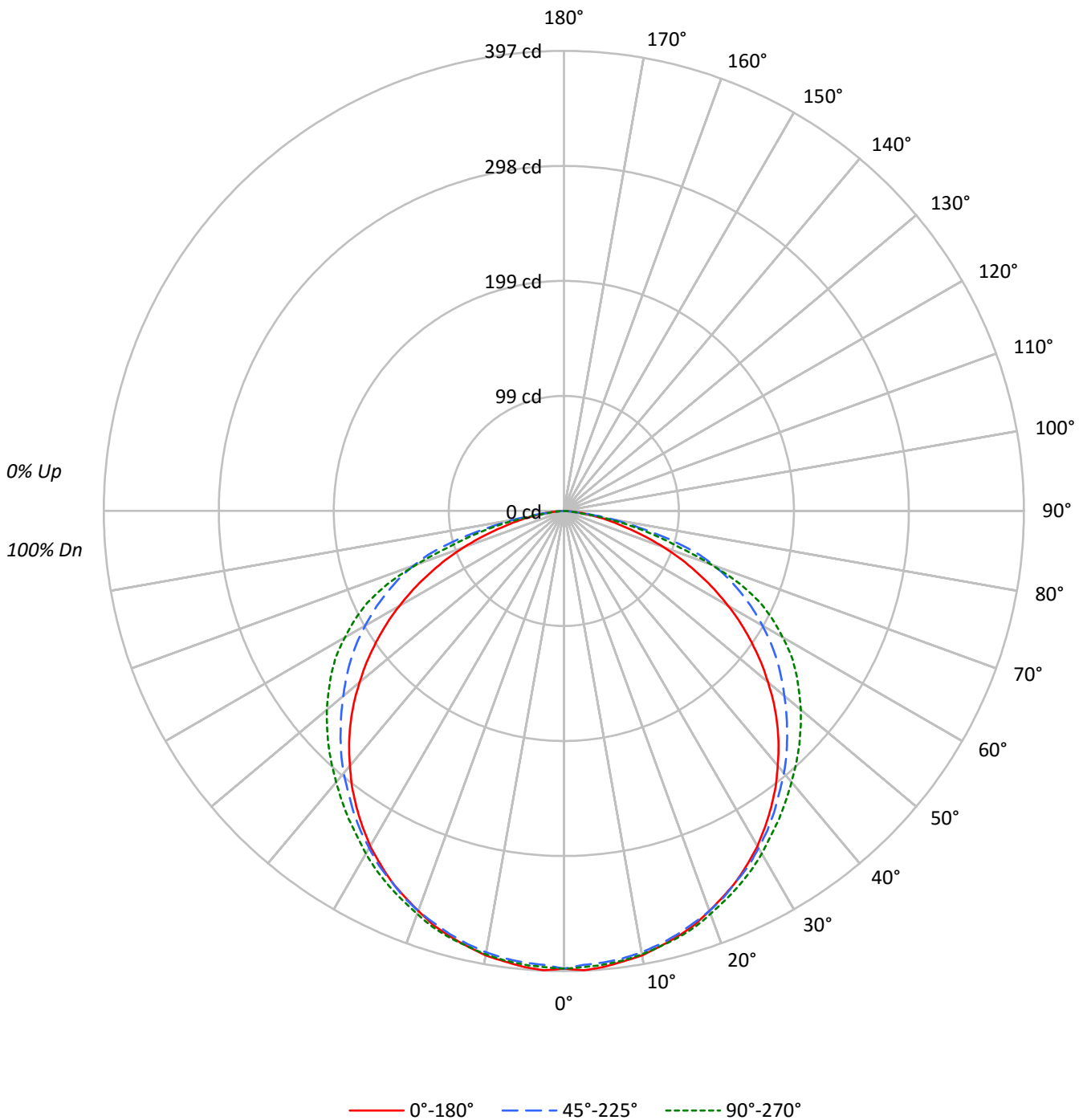
Lumens per Lamp: N/A  
Luminaire Lumens: 1179.0 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	1063	1063	1063
5°	1067	1057	1062
10°	1064	1056	1061
15°	1059	1054	1062
20°	1052	1052	1060
25°	1047	1047	1060
30°	1038	1044	1061
35°	1025	1040	1064
40°	1009	1038	1074
45°	991	1037	1093
50°	963	1040	1117
55°	928	1054	1148
60°	882	1065	1174
65°	814	1079	1190
70°	724	1087	1065
75°	583	976	852
80°	457	685	556
85°	312	198	142



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.4	3.2
10°-20°	107.2	9.1
20°-30°	163.3	13.8
30°-40°	198.9	16.9
40°-50°	211.0	17.9
50°-60°	199.1	16.9
60°-70°	160.8	13.6
70°-80°	87.2	7.4
80°-90°	14.1	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°	307.9	26.1
0°-40°	506.8	43.0
0°-60°	916.9	77.8
0°-90°	1179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1179.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	395	395	395	395	395	
5°	395	394	391	394	393	38
15°	380	379	378	381	381	107
25°	352	352	352	356	357	162
35°	312	314	317	323	324	195
45°	260	264	272	283	287	201
55°	198	206	225	239	245	177
65°	128	144	169	183	187	127
75°	56	82	94	85	82	61
85°	10	11	6	6	5	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	394.9	394.9	394.9	394.9	394.9
2.5°	396.7	394.9	392.1	394.9	394.0
5°	394.9	394.0	391.2	394.0	393.0
7.5°	392.1	392.1	389.4	391.2	391.2
10°	389.4	388.4	386.6	389.4	388.4
12.5°	384.8	383.8	382.9	385.7	384.8
15°	380.1	379.2	378.3	381.1	381.1
17.5°	374.6	373.7	372.8	376.5	376.5
20°	367.3	367.3	367.3	370.9	370.0
22.5°	359.9	359.9	360.8	364.5	363.6
25°	352.5	351.6	352.5	356.2	357.1
27.5°	343.3	344.3	345.2	348.9	349.8
30°	334.1	335.0	336.0	340.6	341.5
32.5°	323.1	324.9	326.8	332.3	332.3
35°	312.0	313.9	316.6	323.1	324.0
37.5°	300.1	301.9	305.6	313.0	314.8
40°	287.2	289.9	295.5	302.8	305.6
42.5°	274.3	278.0	284.4	292.7	296.4
45°	260.5	264.2	272.5	282.6	287.2
47.5°	245.8	250.4	260.5	273.4	277.1
50°	230.1	236.6	248.5	262.3	266.9
52.5°	214.5	221.8	236.6	251.3	255.9
55°	197.9	206.2	224.6	239.3	244.8
57.5°	181.3	190.5	211.7	227.4	232.9
60°	163.8	174.9	197.9	213.5	218.1
62.5°	146.4	159.2	184.1	199.7	203.4
65°	127.9	143.6	169.4	183.2	186.9
67.5°	110.5	128.9	154.6	164.8	164.8
70°	92.0	112.3	138.1	140.8	135.3
72.5°	73.6	96.6	119.7	109.5	104.9
75°	56.1	81.9	93.9	84.7	81.9
77.5°	42.3	66.3	66.3	60.8	58.9
80°	29.5	50.6	44.2	38.7	35.9
82.5°	19.3	28.5	23.0	18.4	15.6
85°	10.1	11.0	6.4	5.5	4.6
87.5°	3.7	1.8	0.9	1.8	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)