

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: P307303

Luminaire Tested: **14FCZ2-25-UNV-L82765-RDP-CA08-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: P307303  
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: 14FCZ2-25-UNV-L82765-RDP-CA08-W2A-U-6500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC 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**

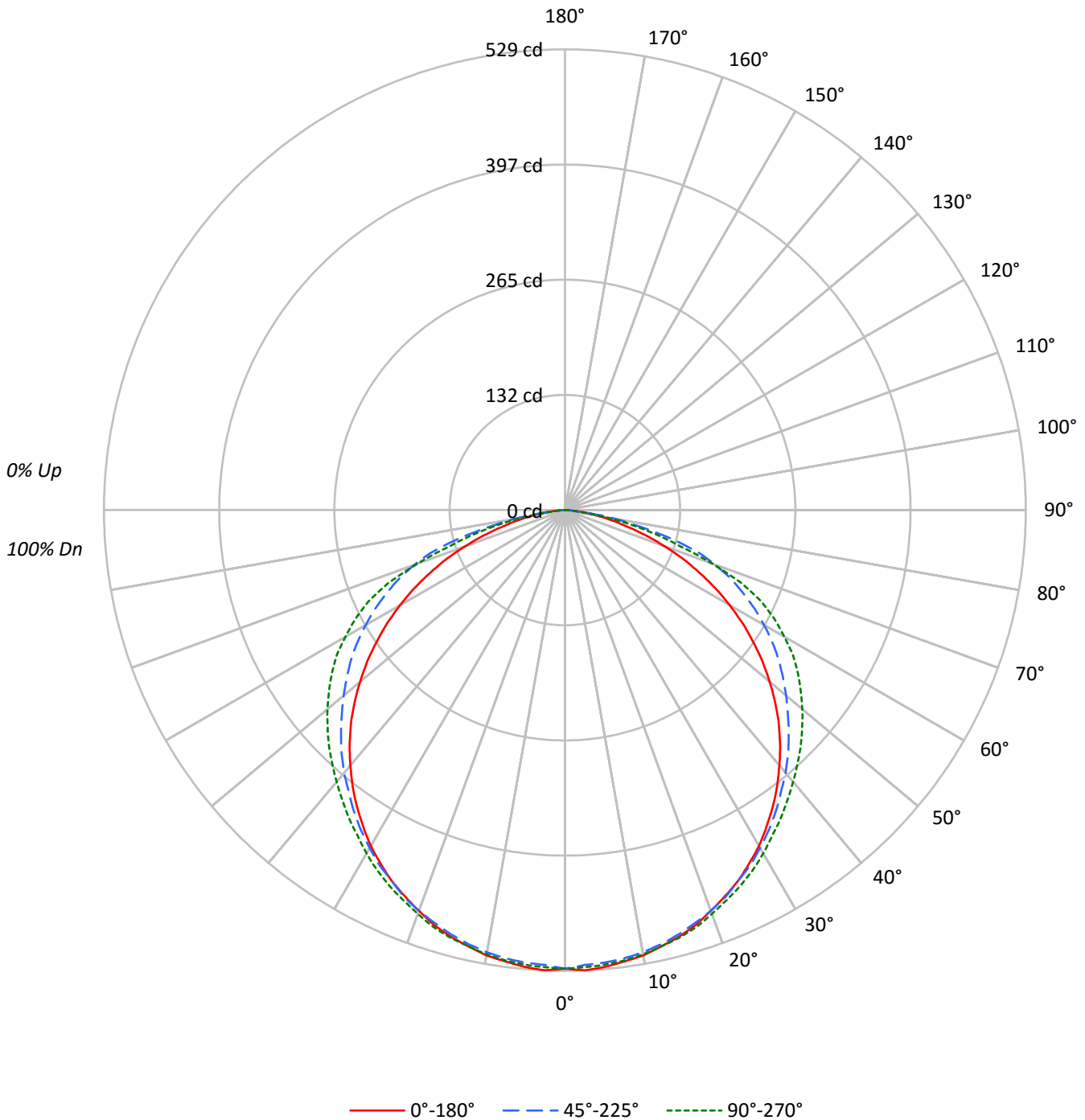
Lumens per Lamp: N/A  
Luminaire Lumens: 1572.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	1417	1417	1417
5°	1422	1409	1415
10°	1418	1409	1415
15°	1412	1405	1416
20°	1402	1402	1413
25°	1396	1396	1414
30°	1384	1392	1415
35°	1367	1387	1419
40°	1345	1384	1431
45°	1322	1383	1457
50°	1284	1387	1490
55°	1238	1405	1532
60°	1176	1420	1566
65°	1086	1438	1586
70°	965	1448	1419
75°	779	1302	1135
80°	609	913	742
85°	417	266	188



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.8	3.2
10°-20°	143.0	9.1
20°-30°	217.7	13.8
30°-40°	265.2	16.9
40°-50°	281.3	17.9
50°-60°	265.5	16.9
60°-70°	214.4	13.6
70°-80°	116.3	7.4
80°-90°	18.8	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°	410.5	26.1
0°-40°	675.7	43.0
0°-60°	1222.5	77.8
0°-90°	1572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1572.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	526	525	522	525	524	50
15°	507	506	504	508	508	143
25°	470	469	470	475	476	216
35°	416	418	422	431	432	260
45°	347	352	363	377	383	267
55°	264	275	300	319	326	236
65°	171	192	226	244	249	169
75°	75	109	125	113	109	82
85°	14	15	9	7	6	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	526.5	526.5	526.5	526.5	526.5
2.5°	529.0	526.5	522.8	526.5	525.3
5°	526.5	525.3	521.6	525.3	524.0
7.5°	522.8	522.8	519.1	521.6	521.6
10°	519.1	517.9	515.5	519.1	517.9
12.5°	513.0	511.8	510.5	514.2	513.0
15°	506.9	505.6	504.4	508.1	508.1
17.5°	499.5	498.3	497.0	502.0	502.0
20°	489.7	489.7	489.7	494.6	493.4
22.5°	479.9	479.9	481.1	486.0	484.8
25°	470.0	468.8	470.0	475.0	476.2
27.5°	457.8	459.0	460.2	465.1	466.4
30°	445.5	446.7	448.0	454.1	455.3
32.5°	430.8	433.2	435.7	443.0	443.0
35°	416.0	418.5	422.2	430.8	432.0
37.5°	400.1	402.5	407.5	417.3	419.7
40°	382.9	386.6	394.0	403.8	407.5
42.5°	365.7	370.6	379.2	390.3	395.2
45°	347.3	352.2	363.3	376.8	382.9
47.5°	327.7	333.8	347.3	364.5	369.4
50°	306.8	315.4	331.4	349.8	355.9
52.5°	286.0	295.8	315.4	335.0	341.2
55°	263.9	274.9	299.5	319.1	326.5
57.5°	241.8	254.0	282.3	303.1	310.5
60°	218.5	233.2	263.9	284.7	290.9
62.5°	195.1	212.3	245.5	266.3	271.2
65°	170.6	191.5	225.8	244.2	249.1
67.5°	147.3	171.8	206.2	219.7	219.7
70°	122.7	149.7	184.1	187.8	180.4
72.5°	98.2	128.9	159.5	146.0	139.9
75°	74.9	109.2	125.2	112.9	109.2
77.5°	56.5	88.4	88.4	81.0	78.5
80°	39.3	67.5	58.9	51.5	47.9
82.5°	25.8	38.0	30.7	24.5	20.9
85°	13.5	14.7	8.6	7.4	6.1
87.5°	4.9	2.5	1.2	2.5	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)