

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: P307436

Luminaire Tested: **14FCZ2-39-UNV-L82765-RDP-CA08-W2A-U-5500K**

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: P307436  
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: 14FCZ2-39-UNV-L82765-RDP-CA08-W2A-U-5500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC SHEET  
Light Source: (168) 5500K 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**

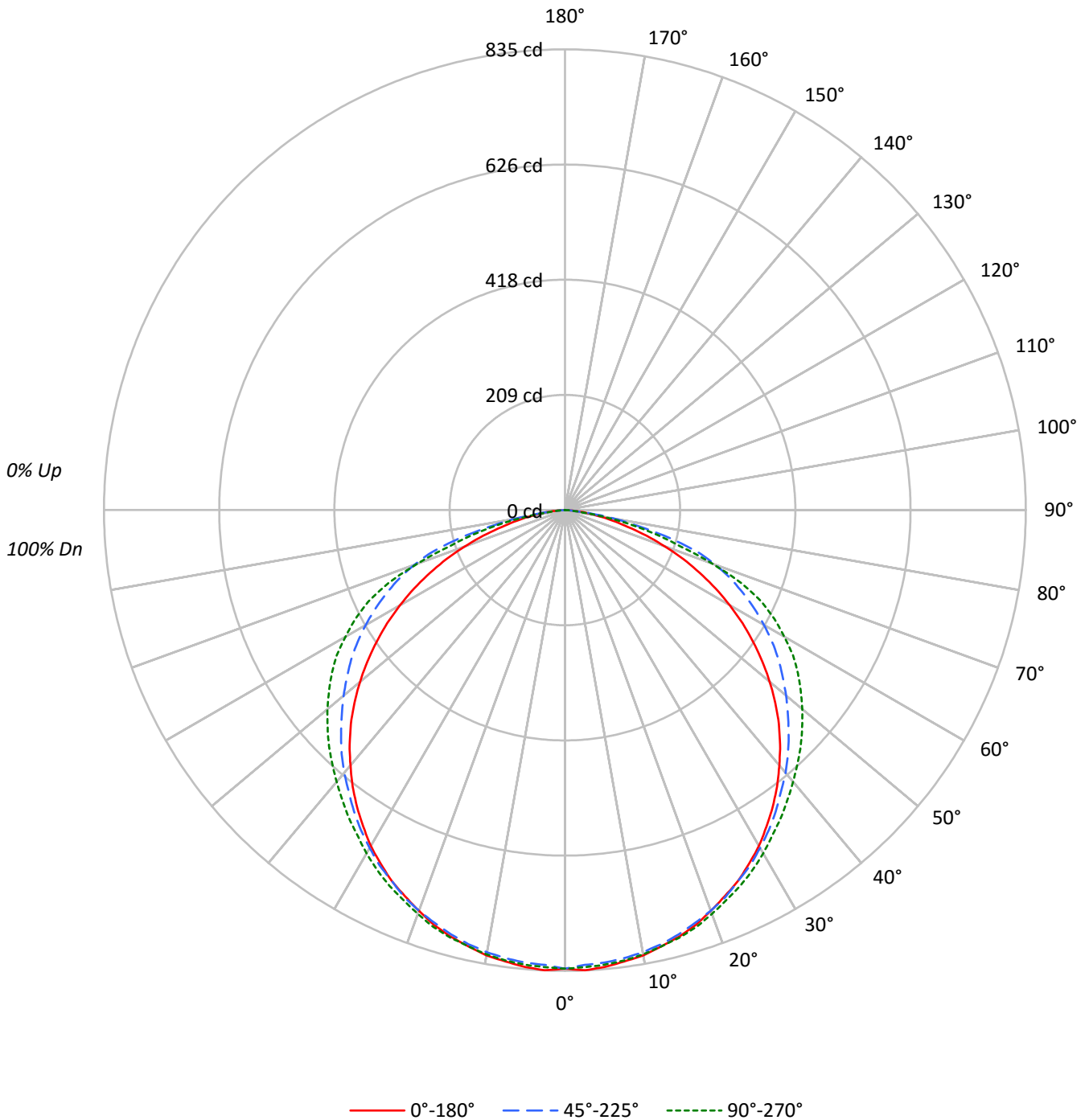
Lumens per Lamp: N/A  
Luminaire Lumens: 2481.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 34.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	2236	2236	2236
5°	2245	2224	2234
10°	2239	2223	2234
15°	2229	2218	2234
20°	2213	2213	2230
25°	2203	2203	2231
30°	2185	2197	2233
35°	2157	2189	2240
40°	2123	2184	2259
45°	2086	2182	2300
50°	2027	2189	2352
55°	1954	2217	2417
60°	1856	2241	2471
65°	1714	2269	2504
70°	1524	2286	2240
75°	1229	2054	1792
80°	961	1441	1170
85°	658	420	299



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.6	3.2
10°-20°	225.7	9.1
20°-30°	343.6	13.8
30°-40°	418.5	16.9
40°-50°	444.0	17.9
50°-60°	419.0	16.9
60°-70°	338.3	13.6
70°-80°	183.5	7.4
80°-90°	29.7	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°	647.9	26.1
0°-40°	1066.4	43.0
0°-60°	1929.4	77.8
0°-90°	2481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2481.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	831	829	823	829	827	79
15°	800	798	796	802	802	226
25°	742	740	742	750	752	342
35°	657	660	666	680	682	411
45°	548	556	573	595	604	422
55°	416	434	473	504	515	372
65°	269	302	356	386	393	267
75°	118	172	198	178	172	129
85°	21	23	14	12	10	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	831.0	831.0	831.0	831.0	831.0
2.5°	834.8	831.0	825.1	831.0	829.0
5°	831.0	829.0	823.2	829.0	827.1
7.5°	825.1	825.1	819.3	823.2	823.2
10°	819.3	817.4	813.5	819.3	817.4
12.5°	809.6	807.7	805.8	811.6	809.6
15°	800.0	798.0	796.1	801.9	801.9
17.5°	788.3	786.4	784.5	792.2	792.2
20°	772.8	772.8	772.8	780.6	778.7
22.5°	757.3	757.3	759.3	767.0	765.1
25°	741.9	739.9	741.9	749.6	751.5
27.5°	722.5	724.4	726.4	734.1	736.0
30°	703.1	705.0	707.0	716.7	718.6
32.5°	679.9	683.7	687.6	699.2	699.2
35°	656.6	660.5	666.3	679.9	681.8
37.5°	631.4	635.3	643.1	658.6	662.4
40°	604.3	610.1	621.8	637.3	643.1
42.5°	577.2	585.0	598.5	615.9	623.7
45°	548.2	555.9	573.3	594.6	604.3
47.5°	517.2	526.8	548.2	575.3	583.0
50°	484.2	497.8	523.0	552.0	561.7
52.5°	451.3	466.8	497.8	528.8	538.5
55°	416.4	433.9	472.6	503.6	515.2
57.5°	381.6	400.9	445.5	478.4	490.0
60°	344.8	368.0	416.4	449.4	459.1
62.5°	308.0	335.1	387.4	420.3	428.1
65°	269.2	302.2	356.4	385.5	393.2
67.5°	232.4	271.2	325.4	346.7	346.7
70°	193.7	236.3	290.5	296.4	284.7
72.5°	155.0	203.4	251.8	230.5	220.8
75°	118.2	172.4	197.6	178.2	172.4
77.5°	89.1	139.5	139.5	127.8	124.0
80°	62.0	106.5	93.0	81.4	75.5
82.5°	40.7	60.0	48.4	38.7	32.9
85°	21.3	23.2	13.6	11.6	9.7
87.5°	7.7	3.9	1.9	3.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)