

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: P307477

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CA08-W2A-U-3500K**

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: P307477  
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: 14FCZ2-44-UNV-L82765-RDP-CA08-W2A-U-3500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC SHEET  
Light Source: (168) 3500K 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**

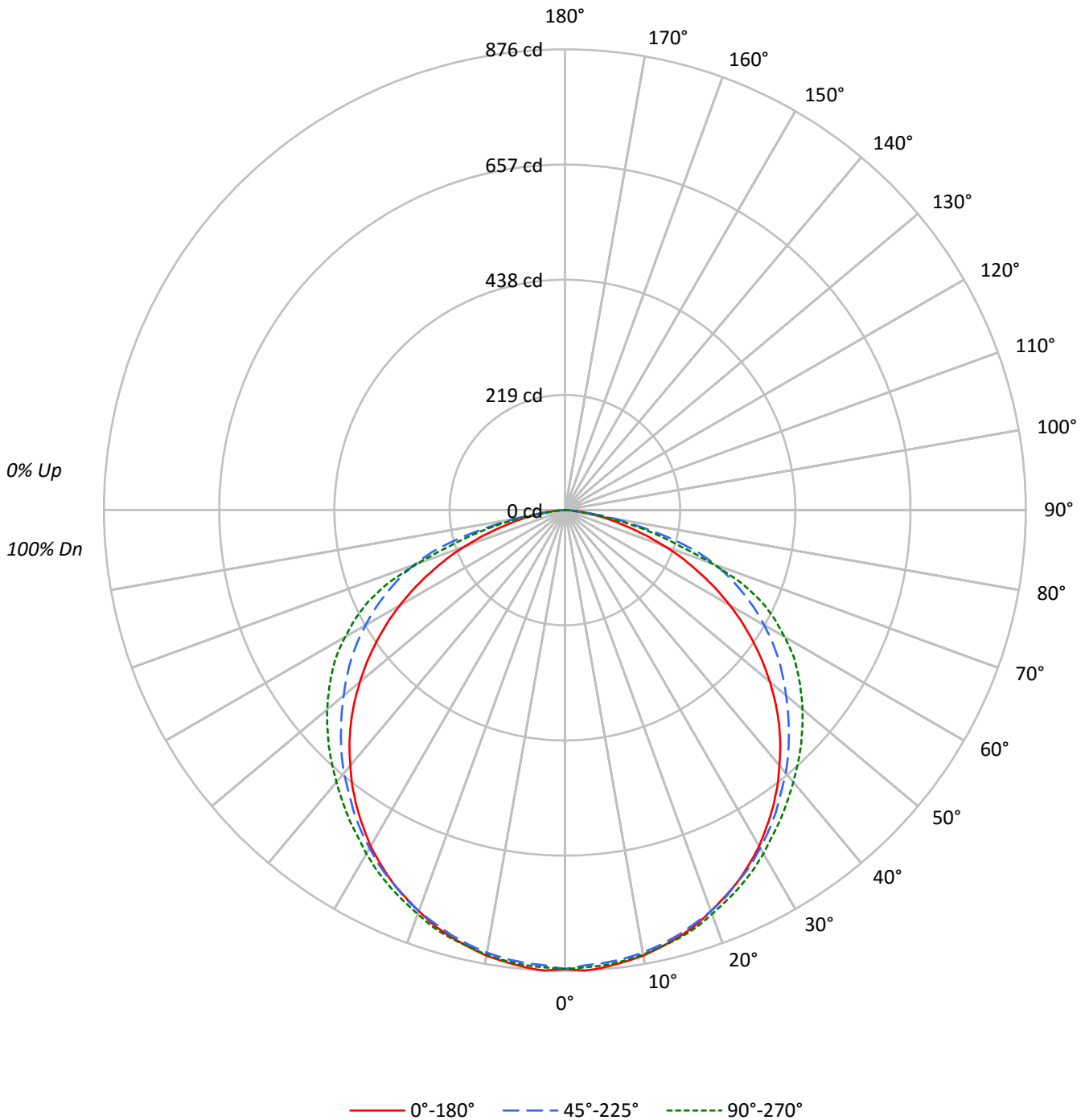
Lumens per Lamp: N/A  
Luminaire Lumens: 2605.0 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	2348	2348	2348
5°	2357	2335	2346
10°	2351	2334	2345
15°	2340	2329	2346
20°	2324	2324	2341
25°	2313	2313	2343
30°	2294	2307	2344
35°	2265	2298	2352
40°	2229	2293	2372
45°	2191	2291	2415
50°	2128	2299	2469
55°	2052	2328	2538
60°	1948	2354	2594
65°	1800	2383	2629
70°	1600	2400	2353
75°	1290	2156	1882
80°	1009	1512	1229
85°	692	438	315



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	3.2
10°-20°	236.9	9.1
20°-30°	360.8	13.8
30°-40°	439.4	16.9
40°-50°	466.2	17.9
50°-60°	440.0	16.9
60°-70°	355.2	13.6
70°-80°	192.7	7.4
80°-90°	31.2	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°	680.3	26.1
0°-40°	1119.7	43.0
0°-60°	2025.9	77.8
0°-90°	2605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2605.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	872	870	864	870	868	83
15°	840	838	836	842	842	237
25°	779	777	779	787	789	359
35°	689	694	700	714	716	431
45°	576	584	602	624	634	443
55°	437	456	496	529	541	391
65°	283	317	374	405	413	280
75°	124	181	207	187	181	136
85°	22	24	14	12	10	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	872.5	872.5	872.5	872.5	872.5
2.5°	876.5	872.5	866.4	872.5	870.4
5°	872.5	870.4	864.3	870.4	868.4
7.5°	866.4	866.4	860.3	864.3	864.3
10°	860.3	858.2	854.2	860.3	858.2
12.5°	850.1	848.1	846.0	852.1	850.1
15°	839.9	837.9	835.9	842.0	842.0
17.5°	827.7	825.7	823.7	831.8	831.8
20°	811.5	811.5	811.5	819.6	817.6
22.5°	795.2	795.2	797.2	805.4	803.3
25°	778.9	776.9	778.9	787.1	789.1
27.5°	758.6	760.6	762.7	770.8	772.8
30°	738.3	740.3	742.3	752.5	754.5
32.5°	713.8	717.9	722.0	734.2	734.2
35°	689.4	693.5	699.6	713.8	715.9
37.5°	663.0	667.1	675.2	691.5	695.5
40°	634.5	640.6	652.8	669.1	675.2
42.5°	606.1	614.2	628.4	646.7	654.9
45°	575.6	583.7	602.0	624.4	634.5
47.5°	543.0	553.2	575.6	604.0	612.2
50°	508.4	522.7	549.1	579.6	589.8
52.5°	473.9	490.1	522.7	555.2	565.4
55°	437.3	455.6	496.2	528.8	541.0
57.5°	400.6	421.0	467.8	502.3	514.5
60°	362.0	386.4	437.3	471.8	482.0
62.5°	323.4	351.8	406.8	441.3	449.5
65°	282.7	317.3	374.2	404.7	412.9
67.5°	244.1	284.7	341.7	364.0	364.0
70°	203.4	248.1	305.1	311.2	299.0
72.5°	162.7	213.5	264.4	242.0	231.8
75°	124.1	181.0	207.4	187.1	181.0
77.5°	93.6	146.4	146.4	134.2	130.2
80°	65.1	111.9	97.6	85.4	79.3
82.5°	42.7	63.0	50.8	40.7	34.6
85°	22.4	24.4	14.2	12.2	10.2
87.5°	8.1	4.1	2.0	4.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)