

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: P307473

Luminaire Tested: **14FCZ2-39-UNV-L82765-RDP-CP250-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: P307473  
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-CP250-W2A-U-5700K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.250" 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**

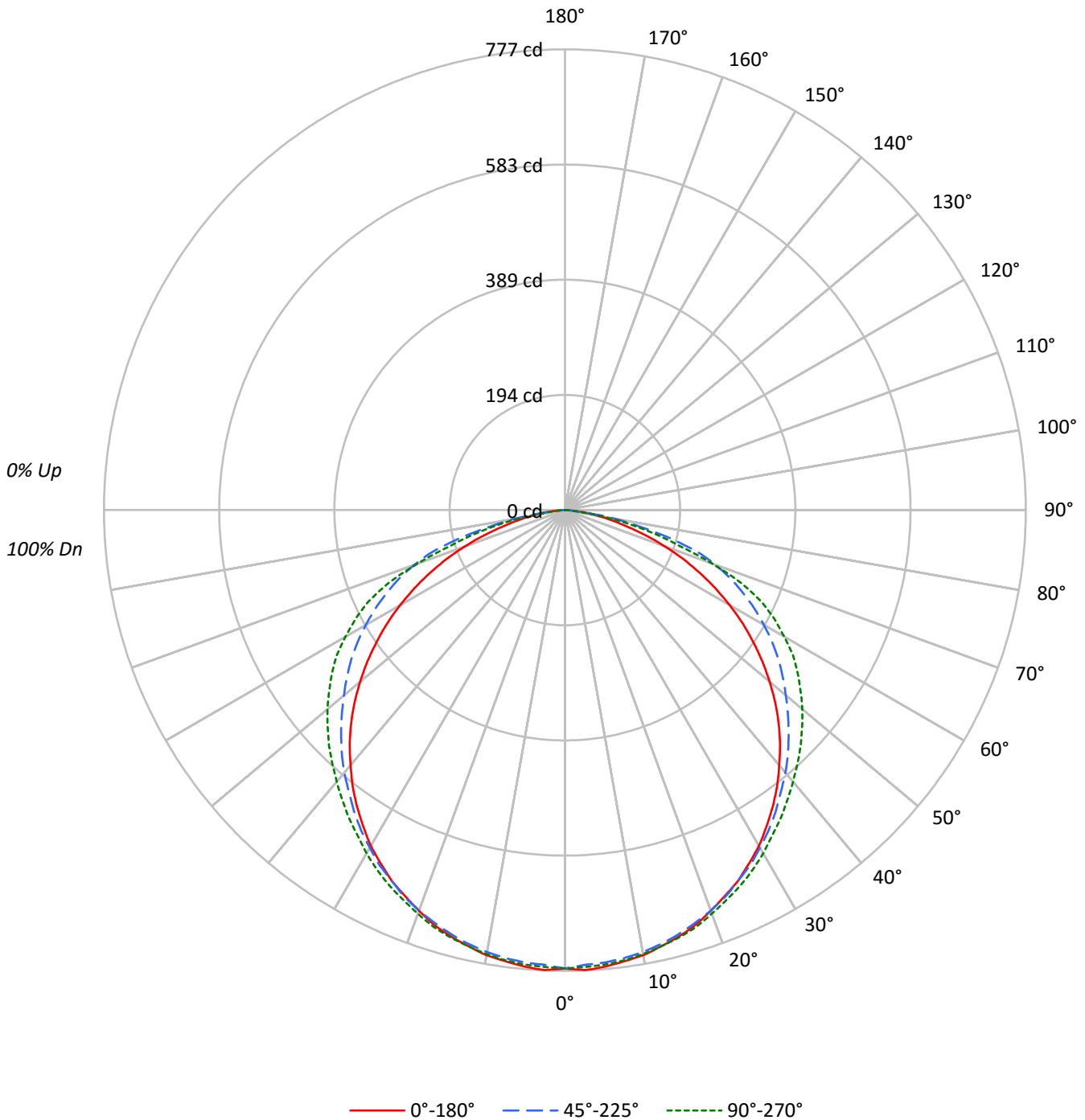
Lumens per Lamp: N/A  
Luminaire Lumens: 2308.0 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 34.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	2080	2080	2080
5°	2088	2069	2078
10°	2083	2068	2078
15°	2073	2063	2078
20°	2059	2059	2074
25°	2049	2049	2076
30°	2032	2044	2077
35°	2007	2036	2084
40°	1975	2032	2101
45°	1940	2030	2140
50°	1886	2037	2187
55°	1818	2063	2249
60°	1726	2085	2298
65°	1595	2111	2329
70°	1418	2127	2084
75°	1143	1911	1668
80°	894	1340	1089
85°	611	389	278



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	3.2
10°-20°	209.9	9.1
20°-30°	319.6	13.8
30°-40°	389.3	16.9
40°-50°	413.0	17.9
50°-60°	389.8	16.9
60°-70°	314.7	13.6
70°-80°	170.7	7.4
80°-90°	27.6	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°	602.7	26.1
0°-40°	992.0	43.0
0°-60°	1794.9	77.8
0°-90°	2308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2308.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	773	771	766	771	769	73
15°	744	742	741	746	746	210
25°	690	688	690	697	699	318
35°	611	614	620	632	634	382
45°	510	517	533	553	562	393
55°	387	404	440	468	479	346
65°	250	281	332	359	366	248
75°	110	160	184	166	160	120
85°	20	22	13	11	9	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	773.0	773.0	773.0	773.0	773.0
2.5°	776.6	773.0	767.6	773.0	771.2
5°	773.0	771.2	765.8	771.2	769.4
7.5°	767.6	767.6	762.2	765.8	765.8
10°	762.2	760.4	756.8	762.2	760.4
12.5°	753.2	751.4	749.6	755.0	753.2
15°	744.2	742.4	740.6	746.0	746.0
17.5°	733.4	731.6	729.8	737.0	737.0
20°	719.0	719.0	719.0	726.2	724.4
22.5°	704.5	704.5	706.3	713.5	711.7
25°	690.1	688.3	690.1	697.3	699.1
27.5°	672.1	673.9	675.7	682.9	684.7
30°	654.1	655.9	657.7	666.7	668.5
32.5°	632.5	636.1	639.7	650.5	650.5
35°	610.8	614.4	619.8	632.5	634.3
37.5°	587.4	591.0	598.2	612.6	616.2
40°	562.2	567.6	578.4	592.8	598.2
42.5°	537.0	544.2	556.8	573.0	580.2
45°	509.9	517.1	533.4	553.2	562.2
47.5°	481.1	490.1	509.9	535.2	542.4
50°	450.5	463.1	486.5	513.5	522.5
52.5°	419.8	434.3	463.1	491.9	500.9
55°	387.4	403.6	439.7	468.5	479.3
57.5°	355.0	373.0	414.4	445.1	455.9
60°	320.7	342.4	387.4	418.0	427.0
62.5°	286.5	311.7	360.4	391.0	398.2
65°	250.5	281.1	331.5	358.6	365.8
67.5°	216.2	252.3	302.7	322.5	322.5
70°	180.2	219.8	270.3	275.7	264.9
72.5°	144.2	189.2	234.2	214.4	205.4
75°	109.9	160.4	183.8	165.8	160.4
77.5°	82.9	129.7	129.7	118.9	115.3
80°	57.7	99.1	86.5	75.7	70.3
82.5°	37.8	55.9	45.0	36.0	30.6
85°	19.8	21.6	12.6	10.8	9.0
87.5°	7.2	3.6	1.8	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)