

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: P307463

Luminaire Tested: **14FCZ2-39-UNV-L82765-RDP-CP187-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: P307463  
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-CP187-W2A-U-5500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.187" POLYCARB 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**

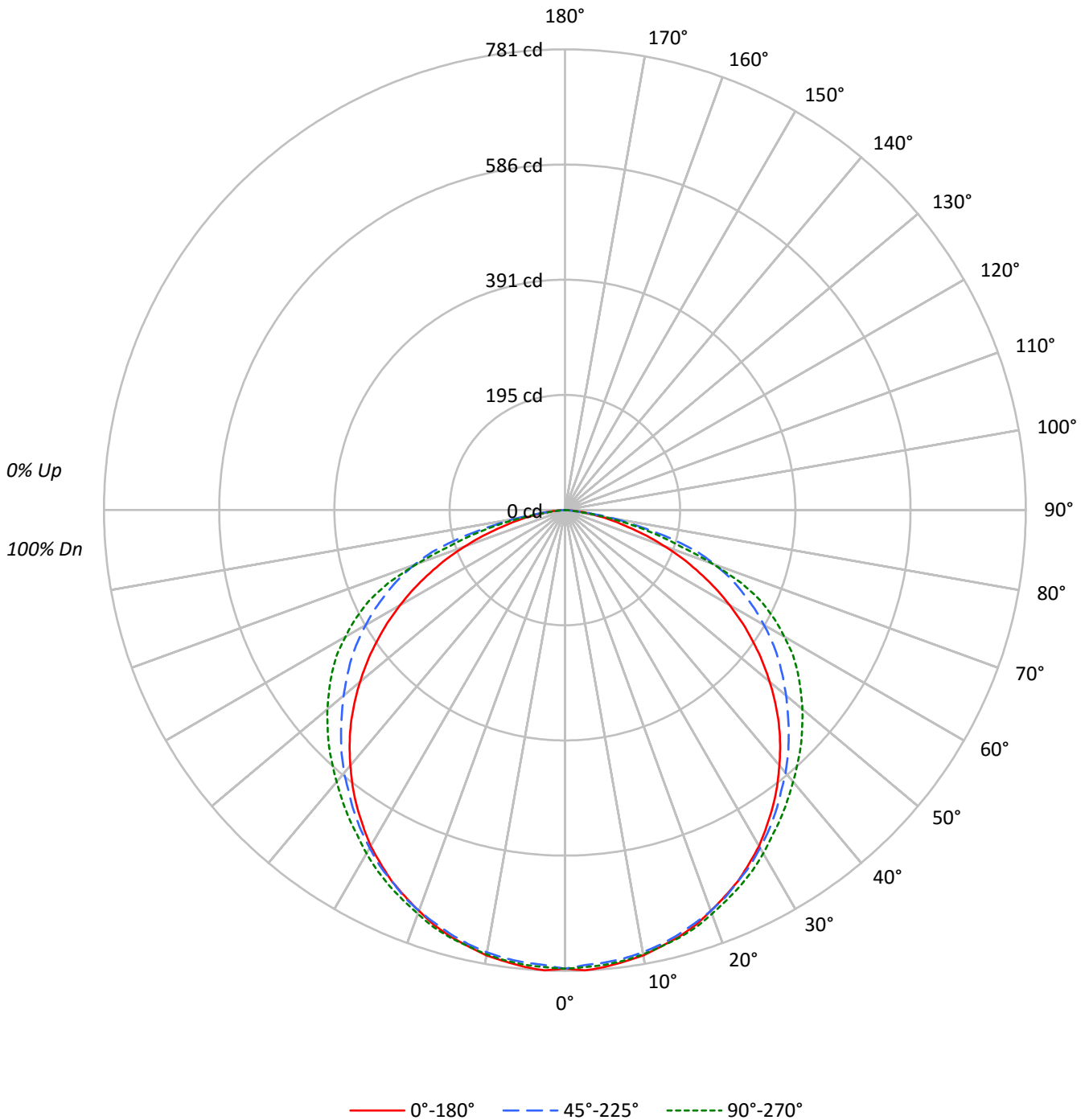
Lumens per Lamp: N/A  
Luminaire Lumens: 2321.0 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 34.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	2092	2092	2092
5°	2100	2080	2090
10°	2094	2080	2090
15°	2085	2075	2090
20°	2070	2070	2086
25°	2061	2061	2088
30°	2044	2055	2089
35°	2018	2048	2095
40°	1986	2043	2113
45°	1952	2041	2152
50°	1896	2048	2200
55°	1828	2074	2261
60°	1736	2097	2312
65°	1604	2123	2342
70°	1426	2138	2096
75°	1149	1921	1677
80°	899	1348	1096
85°	614	392	281



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.6	3.2
10°-20°	211.1	9.1
20°-30°	321.4	13.8
30°-40°	391.5	16.9
40°-50°	415.4	17.9
50°-60°	392.0	16.9
60°-70°	316.5	13.6
70°-80°	171.7	7.4
80°-90°	27.8	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°	606.1	26.1
0°-40°	997.6	43.0
0°-60°	1805.0	77.8
0°-90°	2321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2321.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	777	776	770	776	774	74
15°	748	747	745	750	750	211
25°	694	692	694	701	703	320
35°	614	618	623	636	638	384
45°	513	520	536	556	565	395
55°	390	406	442	471	482	348
65°	252	283	333	361	368	250
75°	110	161	185	167	161	121
85°	20	22	13	11	9	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	777.4	777.4	777.4	777.4	777.4
2.5°	781.0	777.4	771.9	777.4	775.6
5°	777.4	775.6	770.1	775.6	773.7
7.5°	771.9	771.9	766.5	770.1	770.1
10°	766.5	764.7	761.1	766.5	764.7
12.5°	757.4	755.6	753.8	759.2	757.4
15°	748.4	746.6	744.7	750.2	750.2
17.5°	737.5	735.7	733.9	741.1	741.1
20°	723.0	723.0	723.0	730.2	728.4
22.5°	708.5	708.5	710.3	717.6	715.8
25°	694.0	692.2	694.0	701.3	703.1
27.5°	675.9	677.7	679.5	686.8	688.6
30°	657.8	659.6	661.4	670.5	672.3
32.5°	636.0	639.6	643.3	654.1	654.1
35°	614.3	617.9	623.3	636.0	637.8
37.5°	590.7	594.3	601.6	616.1	619.7
40°	565.4	570.8	581.7	596.2	601.6
42.5°	540.0	547.2	559.9	576.2	583.5
45°	512.8	520.1	536.4	556.3	565.4
47.5°	483.8	492.9	512.8	538.2	545.4
50°	453.0	465.7	489.2	516.4	525.5
52.5°	422.2	436.7	465.7	494.7	503.7
55°	389.6	405.9	442.1	471.1	482.0
57.5°	357.0	375.1	416.8	447.6	458.4
60°	322.5	344.3	389.6	420.4	429.5
62.5°	288.1	313.5	362.4	393.2	400.5
65°	251.9	282.7	333.4	360.6	367.8
67.5°	217.4	253.7	304.4	324.4	324.4
70°	181.2	221.1	271.8	277.2	266.4
72.5°	145.0	190.3	235.6	215.6	206.6
75°	110.5	161.3	184.8	166.7	161.3
77.5°	83.4	130.5	130.5	119.6	116.0
80°	58.0	99.7	87.0	76.1	70.7
82.5°	38.1	56.2	45.3	36.2	30.8
85°	19.9	21.7	12.7	10.9	9.1
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)