

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: P307400

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CA125-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: P307400  
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: 14FCZ2-35-UNV-L82765-RDP-CA125-W2A-U-5500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" 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: 2240.0 lumens  
Efficiency: N/A  
Efficacy: 73.9 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

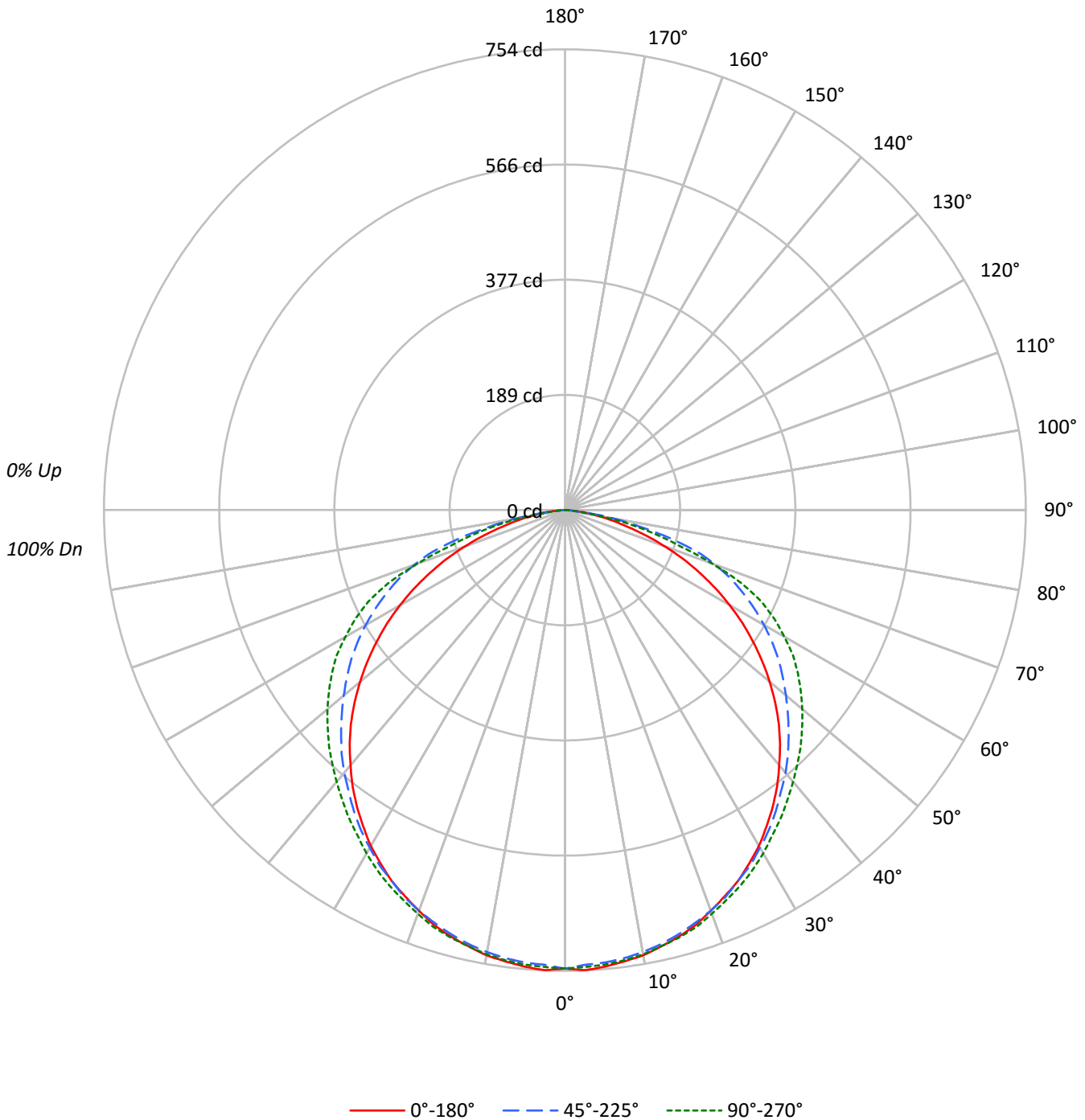
Input Watts (W): 30.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2019	2019	2019
5°	2026	2008	2017
10°	2021	2007	2017
15°	2012	2003	2017
20°	1998	1998	2013
25°	1989	1989	2015
30°	1972	1983	2016
35°	1947	1976	2022
40°	1917	1972	2040
45°	1883	1970	2076
50°	1830	1977	2123
55°	1764	2002	2183
60°	1675	2024	2231
65°	1548	2049	2260
70°	1376	2064	2023
75°	1109	1855	1618
80°	868	1300	1057
85°	593	377	269



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.0	3.2
10°-20°	203.7	9.1
20°-30°	310.2	13.8
30°-40°	377.8	16.9
40°-50°	400.9	17.9
50°-60°	378.3	16.9
60°-70°	305.5	13.6
70°-80°	165.7	7.4
80°-90°	26.8	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°	585.0	26.1
0°-40°	962.8	43.0
0°-60°	1742.0	77.8
0°-90°	2240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2240.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	750	748	743	748	747	71
15°	722	720	719	724	724	204
25°	670	668	670	677	678	308
35°	593	596	602	614	616	371
45°	495	502	518	537	546	381
55°	376	392	427	455	465	336
65°	243	273	322	348	355	241
75°	107	156	178	161	156	117
85°	19	21	12	10	9	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	750.2	750.2	750.2	750.2	750.2
2.5°	753.7	750.2	745.0	750.2	748.5
5°	750.2	748.5	743.2	748.5	746.7
7.5°	745.0	745.0	739.7	743.2	743.2
10°	739.7	738.0	734.5	739.7	738.0
12.5°	731.0	729.2	727.5	732.7	731.0
15°	722.3	720.5	718.8	724.0	724.0
17.5°	711.8	710.0	708.3	715.3	715.3
20°	697.8	697.8	697.8	704.8	703.0
22.5°	683.8	683.8	685.5	692.5	690.8
25°	669.8	668.0	669.8	676.8	678.5
27.5°	652.3	654.0	655.8	662.8	664.5
30°	634.8	636.6	638.3	647.1	648.8
32.5°	613.8	617.3	620.8	631.3	631.3
35°	592.8	596.3	601.6	613.8	615.6
37.5°	570.1	573.6	580.6	594.6	598.1
40°	545.6	550.9	561.4	575.4	580.6
42.5°	521.1	528.1	540.4	556.1	563.1
45°	494.9	501.9	517.6	536.9	545.6
47.5°	466.9	475.7	494.9	519.4	526.4
50°	437.2	449.4	472.2	498.4	507.2
52.5°	407.5	421.5	449.4	477.4	486.2
55°	376.0	391.7	426.7	454.7	465.2
57.5°	344.5	362.0	402.2	432.0	442.4
60°	311.3	332.3	376.0	405.7	414.5
62.5°	278.1	302.5	349.8	379.5	386.5
65°	243.1	272.8	321.8	348.0	355.0
67.5°	209.9	244.8	293.8	313.0	313.0
70°	174.9	213.4	262.3	267.6	257.1
72.5°	139.9	183.6	227.3	208.1	199.4
75°	106.7	155.6	178.4	160.9	155.6
77.5°	80.4	125.9	125.9	115.4	111.9
80°	56.0	96.2	83.9	73.4	68.2
82.5°	36.7	54.2	43.7	35.0	29.7
85°	19.2	21.0	12.2	10.5	8.7
87.5°	7.0	3.5	1.7	3.5	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)