

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: P307405

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CP125-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: P307405  
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-CP125-W2A-U-3500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB 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: 2063.0 lumens  
Efficiency: N/A  
Efficacy: 69.7 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

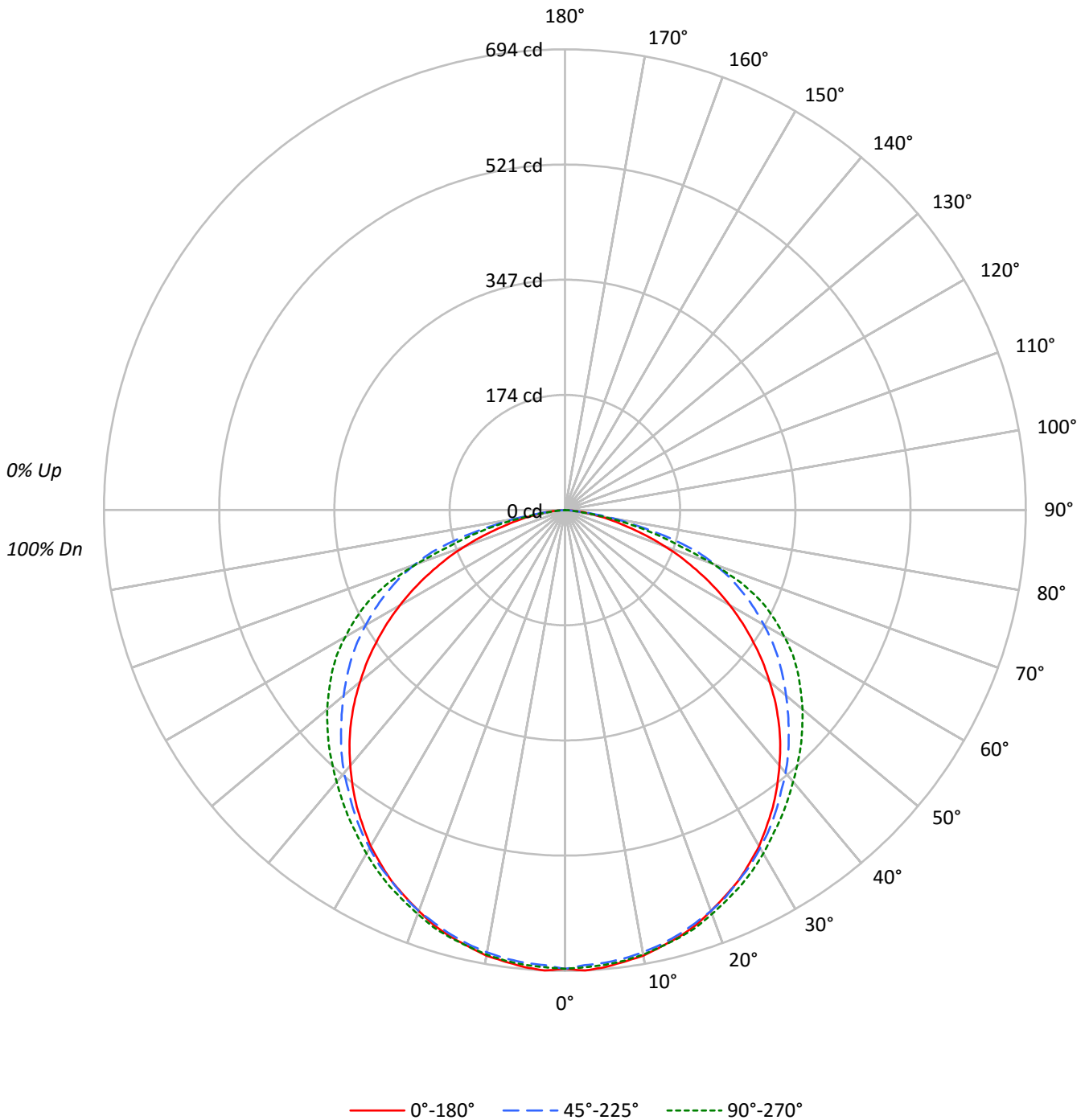
Input Watts (W): 29.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1859	1859	1859
5°	1867	1849	1858
10°	1862	1849	1857
15°	1853	1844	1858
20°	1840	1840	1854
25°	1832	1832	1855
30°	1817	1827	1857
35°	1794	1820	1862
40°	1765	1816	1878
45°	1735	1814	1912
50°	1686	1821	1955
55°	1625	1844	2010
60°	1543	1864	2054
65°	1426	1887	2082
70°	1268	1901	1863
75°	1021	1708	1490
80°	798	1198	973
85°	546	349	250



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.4	3.2
10°-20°	187.6	9.1
20°-30°	285.7	13.8
30°-40°	348.0	16.9
40°-50°	369.2	17.9
50°-60°	348.4	16.9
60°-70°	281.3	13.6
70°-80°	152.6	7.4
80°-90°	24.7	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°	538.7	26.1
0°-40°	886.7	43.0
0°-60°	1604.4	77.8
0°-90°	2063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2063.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	691	689	684	689	688	66
15°	665	664	662	667	667	188
25°	617	615	617	623	625	284
35°	546	549	554	565	567	341
45°	456	462	477	494	502	351
55°	346	361	393	419	428	309
65°	224	251	296	320	327	222
75°	98	143	164	148	143	107
85°	18	19	11	10	8	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	691.0	691.0	691.0	691.0	691.0
2.5°	694.2	691.0	686.1	691.0	689.3
5°	691.0	689.3	684.5	689.3	687.7
7.5°	686.1	686.1	681.3	684.5	684.5
10°	681.3	679.7	676.5	681.3	679.7
12.5°	673.2	671.6	670.0	674.8	673.2
15°	665.2	663.6	662.0	666.8	666.8
17.5°	655.5	653.9	652.3	658.7	658.7
20°	642.6	642.6	642.6	649.1	647.5
22.5°	629.7	629.7	631.4	637.8	636.2
25°	616.9	615.3	616.9	623.3	624.9
27.5°	600.8	602.4	604.0	610.4	612.0
30°	584.7	586.3	587.9	595.9	597.5
32.5°	565.3	568.5	571.8	581.4	581.4
35°	546.0	549.2	554.0	565.3	566.9
37.5°	525.1	528.3	534.7	547.6	550.8
40°	502.5	507.3	517.0	529.9	534.7
42.5°	480.0	486.4	497.7	512.2	518.6
45°	455.8	462.2	476.7	494.5	502.5
47.5°	430.0	438.1	455.8	478.4	484.8
50°	402.7	413.9	434.9	459.0	467.1
52.5°	375.3	388.2	413.9	439.7	447.7
55°	346.3	360.8	393.0	418.8	428.4
57.5°	317.3	333.4	370.4	397.8	407.5
60°	286.7	306.0	346.3	373.7	381.7
62.5°	256.1	278.6	322.1	349.5	355.9
65°	223.9	251.3	296.4	320.5	327.0
67.5°	193.3	225.5	270.6	288.3	288.3
70°	161.1	196.5	241.6	246.4	236.8
72.5°	128.8	169.1	209.4	191.7	183.6
75°	98.2	143.3	164.3	148.2	143.3
77.5°	74.1	116.0	116.0	106.3	103.1
80°	51.5	88.6	77.3	67.6	62.8
82.5°	33.8	49.9	40.3	32.2	27.4
85°	17.7	19.3	11.3	9.7	8.1
87.5°	6.4	3.2	1.6	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)