

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: P307403

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CP125-W2A-U-2700K**

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: P307403  
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-2700K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET  
Light Source: (168) 2700K 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**

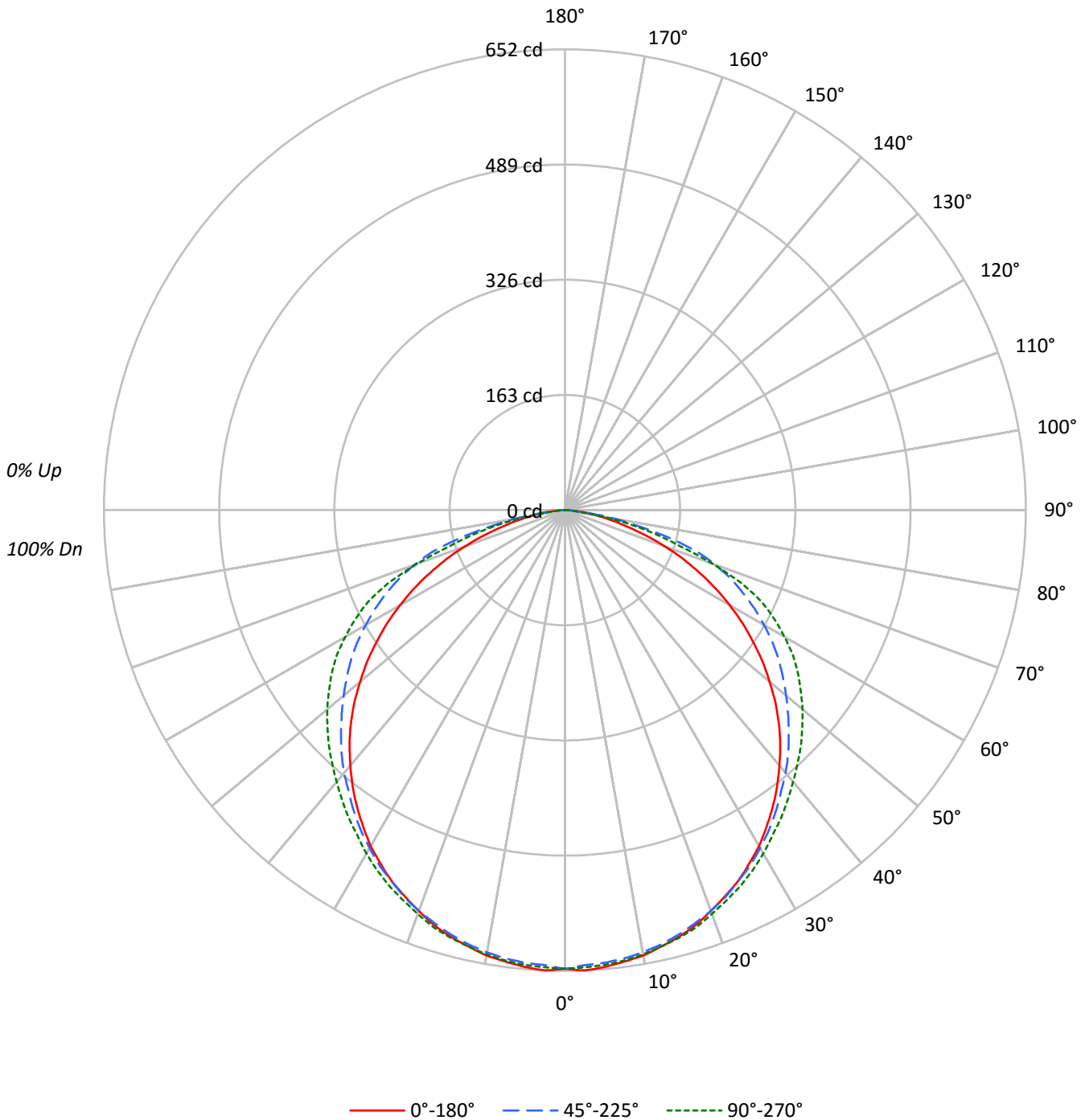
Lumens per Lamp: N/A  
Luminaire Lumens: 1938.0 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	1747	1747	1747
5°	1753	1737	1745
10°	1749	1736	1745
15°	1741	1733	1745
20°	1729	1729	1742
25°	1721	1721	1743
30°	1707	1716	1744
35°	1685	1710	1750
40°	1658	1706	1764
45°	1630	1705	1797
50°	1584	1710	1837
55°	1526	1732	1888
60°	1449	1751	1930
65°	1339	1773	1955
70°	1190	1786	1750
75°	960	1604	1400
80°	750	1125	914
85°	513	327	235



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.4	3.2
10°-20°	176.3	9.1
20°-30°	268.4	13.8
30°-40°	326.9	16.9
40°-50°	346.8	17.9
50°-60°	327.3	16.9
60°-70°	264.3	13.6
70°-80°	143.4	7.4
80°-90°	23.2	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°	506.1	26.1
0°-40°	833.0	43.0
0°-60°	1507.1	77.8
0°-90°	1938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	649	649	649	649	649	
5°	649	648	643	648	646	62
15°	625	623	622	626	626	176
25°	580	578	580	586	587	267
35°	513	516	520	531	533	321
45°	428	434	448	464	472	330
55°	325	339	369	393	402	291
65°	210	236	278	301	307	208
75°	92	135	154	139	135	101
85°	17	18	11	9	8	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	649.1	649.1	649.1	649.1	649.1
2.5°	652.1	649.1	644.5	649.1	647.6
5°	649.1	647.6	643.0	647.6	646.1
7.5°	644.5	644.5	640.0	643.0	643.0
10°	640.0	638.5	635.5	640.0	638.5
12.5°	632.4	630.9	629.4	634.0	632.4
15°	624.9	623.4	621.9	626.4	626.4
17.5°	615.8	614.3	612.8	618.8	618.8
20°	603.7	603.7	603.7	609.7	608.2
22.5°	591.6	591.6	593.1	599.2	597.6
25°	579.5	578.0	579.5	585.5	587.1
27.5°	564.4	565.9	567.4	573.4	574.9
30°	549.2	550.7	552.3	559.8	561.3
32.5°	531.1	534.1	537.1	546.2	546.2
35°	512.9	515.9	520.5	531.1	532.6
37.5°	493.2	496.3	502.3	514.4	517.5
40°	472.1	476.6	485.7	497.8	502.3
42.5°	450.9	456.9	467.5	481.1	487.2
45°	428.2	434.2	447.9	464.5	472.1
47.5°	404.0	411.5	428.2	449.4	455.4
50°	378.3	388.8	408.5	431.2	438.8
52.5°	352.5	364.6	388.8	413.1	420.6
55°	325.3	338.9	369.2	393.4	402.5
57.5°	298.1	313.2	348.0	373.7	382.8
60°	269.3	287.5	325.3	351.0	358.6
62.5°	240.6	261.8	302.6	328.3	334.4
65°	210.3	236.0	278.4	301.1	307.1
67.5°	181.6	211.8	254.2	270.8	270.8
70°	151.3	184.6	227.0	231.5	222.4
72.5°	121.0	158.9	196.7	180.0	172.5
75°	92.3	134.7	154.3	139.2	134.7
77.5°	69.6	108.9	108.9	99.9	96.8
80°	48.4	83.2	72.6	63.5	59.0
82.5°	31.8	46.9	37.8	30.3	25.7
85°	16.6	18.2	10.6	9.1	7.6
87.5°	6.1	3.0	1.5	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)