

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: P312075

Luminaire Tested: **14FCZ2-35-UNV-L83050-RDP-CP125-W2A-U-3000K**

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: P312075  
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-L83050-RDP-CP125-W2A-U-3000K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET  
Light Source: (168) 3000K 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**

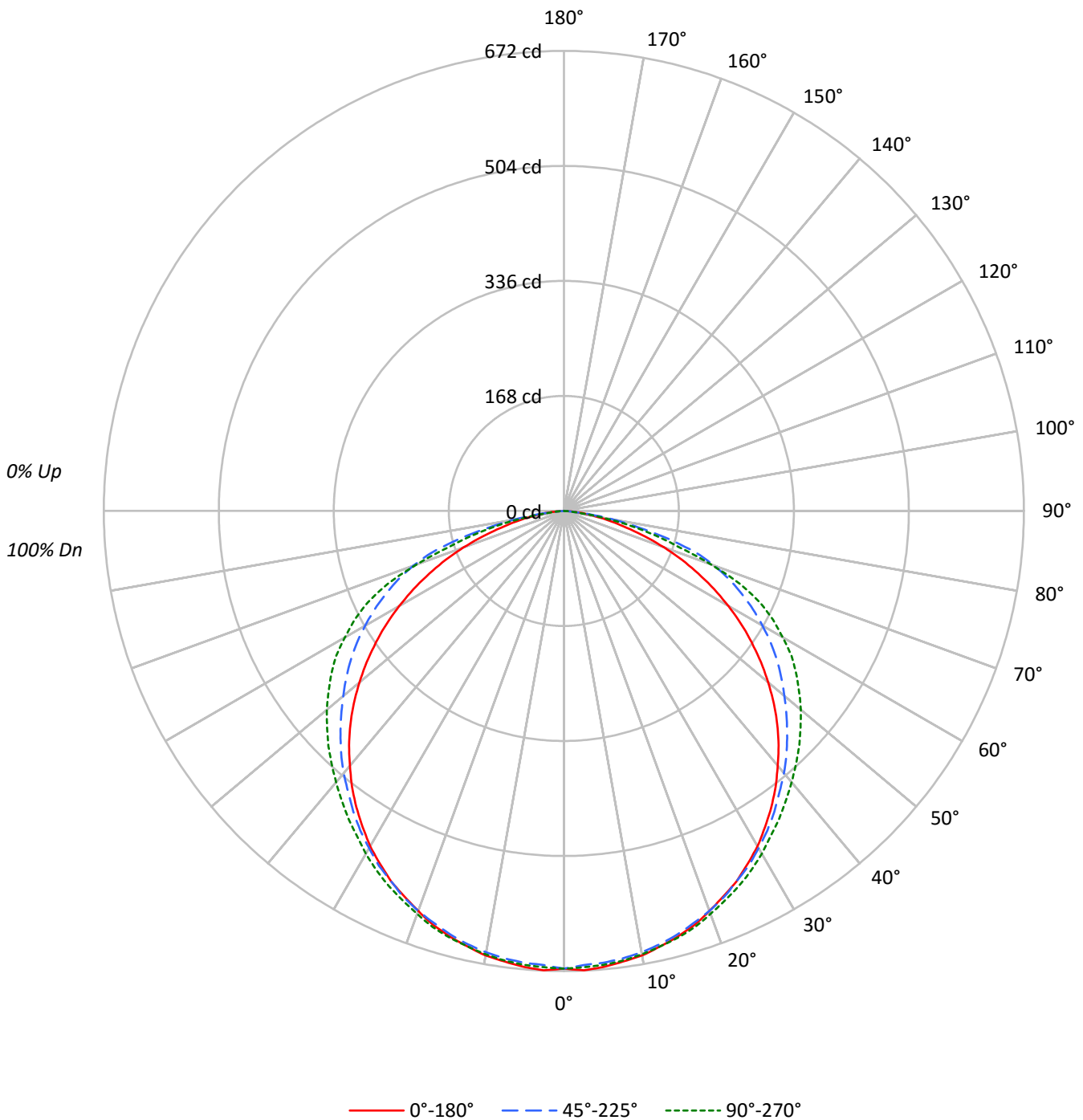
Lumens per Lamp: N/A  
Luminaire Lumens: 1996.0 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	1799	1799	1799
5°	1806	1789	1797
10°	1801	1788	1797
15°	1793	1784	1797
20°	1781	1781	1794
25°	1772	1772	1795
30°	1758	1767	1796
35°	1736	1761	1802
40°	1708	1757	1818
45°	1678	1756	1850
50°	1631	1761	1892
55°	1572	1784	1945
60°	1493	1803	1988
65°	1379	1826	2014
70°	1226	1839	1803
75°	989	1652	1442
80°	773	1159	942
85°	528	337	241



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.3	3.2
10°-20°	181.5	9.1
20°-30°	276.4	13.8
30°-40°	336.7	16.9
40°-50°	357.2	17.9
50°-60°	337.1	16.9
60°-70°	272.2	13.6
70°-80°	147.6	7.4
80°-90°	23.9	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°	521.2	26.1
0°-40°	857.9	43.0
0°-60°	1552.3	77.8
0°-90°	1996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1996.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	668	667	662	667	665	63
15°	644	642	640	645	645	182
25°	597	595	597	603	605	275
35°	528	531	536	547	548	330
45°	441	447	461	478	486	340
55°	335	349	380	405	414	299
65°	217	243	287	310	316	215
75°	95	139	159	143	139	104
85°	17	19	11	9	8	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	668.5	668.5	668.5	668.5	668.5
2.5°	671.6	668.5	663.8	668.5	667.0
5°	668.5	667.0	662.3	667.0	665.4
7.5°	663.8	663.8	659.2	662.3	662.3
10°	659.2	657.6	654.5	659.2	657.6
12.5°	651.4	649.8	648.3	652.9	651.4
15°	643.6	642.0	640.5	645.1	645.1
17.5°	634.2	632.7	631.1	637.3	637.3
20°	621.8	621.8	621.8	628.0	626.4
22.5°	609.3	609.3	610.9	617.1	615.5
25°	596.8	595.3	596.8	603.1	604.6
27.5°	581.2	582.8	584.4	590.6	592.2
30°	565.7	567.2	568.8	576.6	578.1
32.5°	547.0	550.1	553.2	562.5	562.5
35°	528.3	531.4	536.1	547.0	548.5
37.5°	508.0	511.1	517.4	529.8	532.9
40°	486.2	490.9	500.2	512.7	517.4
42.5°	464.4	470.6	481.5	495.5	501.8
45°	441.0	447.2	461.3	478.4	486.2
47.5°	416.1	423.9	441.0	462.8	469.0
50°	389.6	400.5	420.7	444.1	451.9
52.5°	363.1	375.6	400.5	425.4	433.2
55°	335.0	349.1	380.2	405.2	414.5
57.5°	307.0	322.6	358.4	384.9	394.3
60°	277.4	296.1	335.0	361.5	369.3
62.5°	247.8	269.6	311.7	338.2	344.4
65°	216.6	243.1	286.7	310.1	316.3
67.5°	187.0	218.2	261.8	278.9	278.9
70°	155.8	190.1	233.7	238.4	229.1
72.5°	124.7	163.6	202.6	185.4	177.6
75°	95.1	138.7	158.9	143.4	138.7
77.5°	71.7	112.2	112.2	102.8	99.7
80°	49.9	85.7	74.8	65.4	60.8
82.5°	32.7	48.3	39.0	31.2	26.5
85°	17.1	18.7	10.9	9.3	7.8
87.5°	6.2	3.1	1.6	3.1	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)