

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: P307608

Luminaire Tested: **14FCZ2-25-UNV-L82765-CP250-W2A-U-5700K**

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: P307608  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-25-UNV-L82765-CP250-W2A-U-5700K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.250" POLYCARB SHEET  
Light Source: (168) 5700K 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**

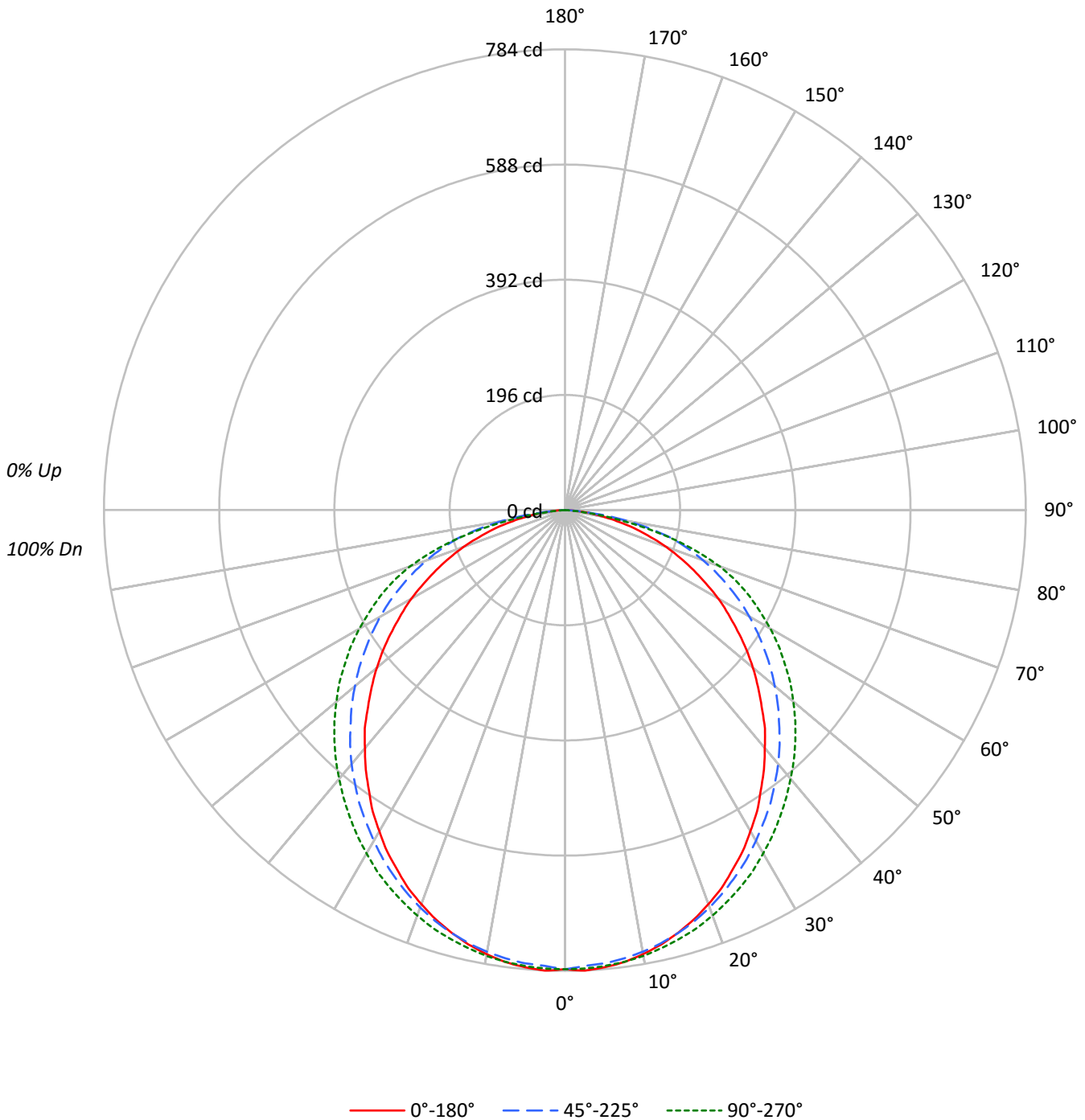
Lumens per Lamp: N/A  
Luminaire Lumens: 2268.0 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.2  
Input Voltage (V): NR  
Input Current (A<sub>in</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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2102	2102	2102
5°	2109	2092	2104
10°	2096	2085	2105
15°	2074	2075	2103
20°	2044	2061	2103
25°	2004	2041	2101
30°	1961	2019	2096
35°	1909	2002	2095
40°	1858	1983	2098
45°	1802	1961	2109
50°	1749	1952	2123
55°	1682	1946	2143
60°	1622	1949	2172
65°	1539	1955	2206
70°	1445	1969	2205
75°	1309	1988	1993
80°	1074	1717	1418
85°	797	812	327



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	3.3
10°-20°	211.2	9.3
20°-30°	318.2	14.0
30°-40°	381.8	16.8
40°-50°	397.9	17.5
50°-60°	368.4	16.2
60°-70°	297.6	13.1
70°-80°	181.5	8.0
80°-90°	37.5	1.7
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°	603.3	26.6
0°-40°	985.1	43.4
0°-60°	1751.4	77.2
0°-90°	2268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	781	779	774	780	779	74
15°	744	745	745	755	755	210
25°	675	679	687	704	708	311
35°	581	590	609	632	638	364
45°	473	488	515	544	554	366
55°	359	377	415	447	457	321
65°	242	266	307	338	346	239
75°	126	154	191	194	192	132
85°	26	38	26	15	11	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	781.3	781.3	781.3	781.3	781.3
2.5°	784.4	781.8	776.3	781.8	780.8
5°	780.8	778.8	774.3	779.8	778.8
7.5°	775.8	773.7	769.7	776.3	775.3
10°	767.2	766.2	763.1	770.7	770.2
12.5°	757.1	756.6	755.0	763.6	763.1
15°	744.4	744.9	744.9	755.0	755.0
17.5°	730.3	731.3	733.3	744.4	745.9
20°	713.6	715.6	719.6	732.3	734.3
22.5°	696.4	697.9	704.0	719.1	721.2
25°	675.1	679.2	687.3	704.5	707.5
27.5°	654.9	658.4	669.6	687.3	692.3
30°	631.1	636.7	649.8	669.1	674.6
32.5°	608.4	614.4	629.6	651.9	656.9
35°	581.1	590.2	609.4	631.6	637.7
37.5°	556.3	564.9	586.6	610.9	618.0
40°	529.0	539.6	564.4	590.2	597.3
42.5°	503.7	513.8	540.6	566.9	576.5
45°	473.4	487.5	515.3	544.2	554.3
47.5°	445.5	459.7	491.6	522.4	531.5
50°	417.7	432.9	466.3	498.1	507.2
52.5°	388.9	405.1	441.0	472.8	483.5
55°	358.6	377.3	414.7	447.1	456.7
57.5°	329.7	348.9	388.9	421.8	431.4
60°	301.4	321.1	362.1	393.4	403.6
62.5°	270.1	293.3	335.8	366.6	374.2
65°	241.7	265.5	307.0	337.8	346.4
67.5°	211.9	237.7	279.2	307.5	315.6
70°	183.6	210.4	250.3	276.6	280.2
72.5°	153.2	180.5	221.0	237.7	237.7
75°	125.9	153.7	191.2	194.2	191.7
77.5°	96.1	126.9	151.2	145.1	139.1
80°	69.3	99.6	110.8	99.6	91.5
82.5°	46.5	72.3	66.8	53.1	47.0
85°	25.8	38.4	26.3	14.7	10.6
87.5°	9.6	8.6	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)