

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: P307575

Luminaire Tested: **14FCZ2-25-UNV-L82765-CA125-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: P307575  
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-CA125-W2A-U-3000K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" ACRYLIC 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**

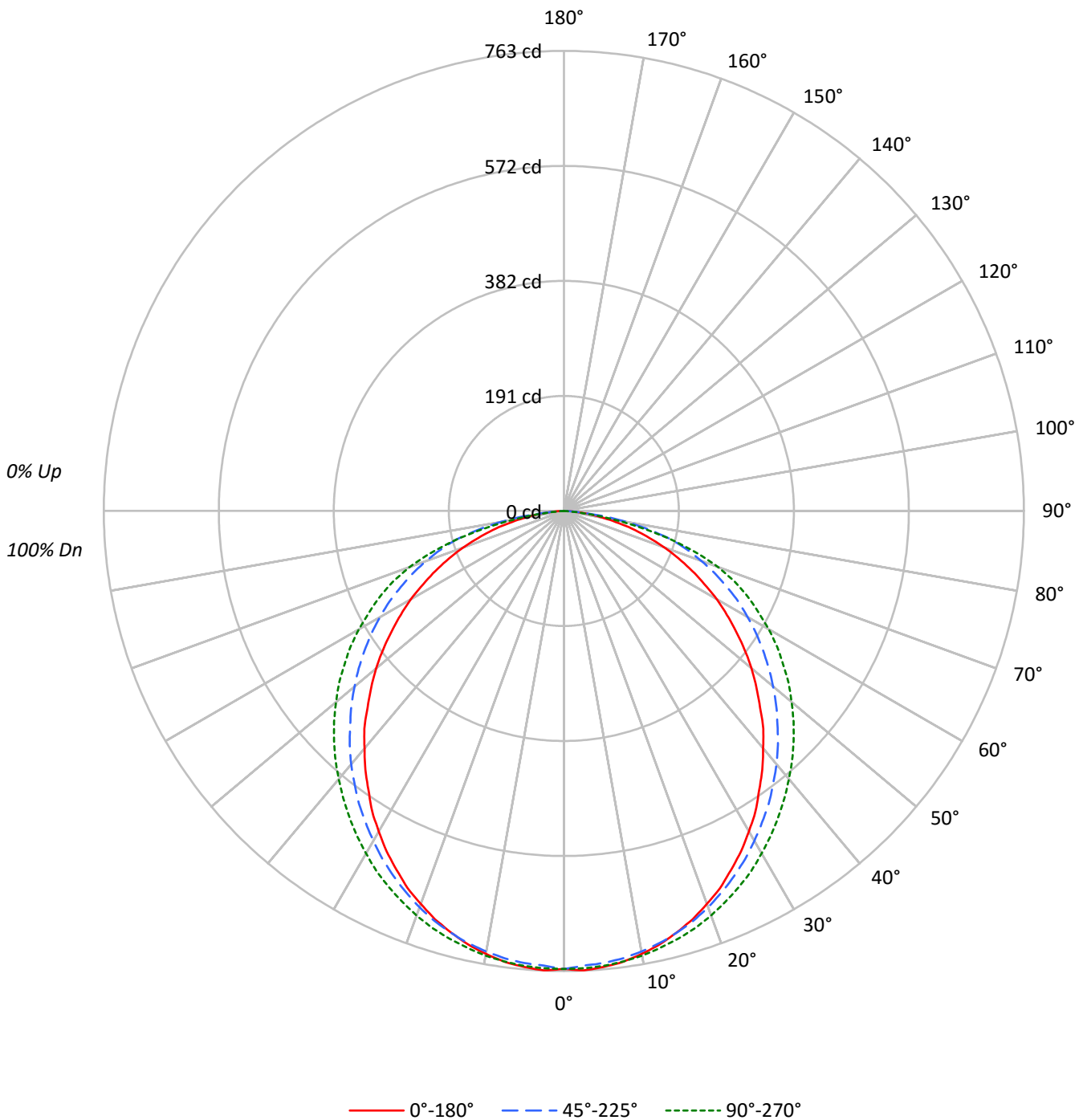
Lumens per Lamp: N/A  
Luminaire Lumens: 2205.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.5  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	2044	2044	2044
5°	2051	2033	2045
10°	2038	2027	2046
15°	2016	2018	2045
20°	1987	2003	2044
25°	1949	1984	2042
30°	1907	1963	2038
35°	1856	1946	2037
40°	1807	1927	2040
45°	1751	1907	2051
50°	1700	1898	2064
55°	1635	1892	2083
60°	1577	1894	2112
65°	1496	1900	2145
70°	1404	1915	2143
75°	1273	1933	1937
80°	1044	1669	1379
85°	775	790	318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.9	3.3
10°-20°	205.3	9.3
20°-30°	309.3	14.0
30°-40°	371.2	16.8
40°-50°	386.9	17.5
50°-60°	358.2	16.2
60°-70°	289.4	13.1
70°-80°	176.4	8.0
80°-90°	36.4	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°	586.5	26.6
0°-40°	957.7	43.4
0°-60°	1702.8	77.2
0°-90°	2205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2205.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	760	760	760	760	760	
5°	759	757	753	758	757	72
15°	724	724	724	734	734	204
25°	656	660	668	685	688	303
35°	565	574	592	614	620	354
45°	460	474	501	529	539	356
55°	349	367	403	435	444	312
65°	235	258	298	328	337	232
75°	122	150	186	189	186	129
85°	25	37	26	14	10	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	759.6	759.6	759.6	759.6	759.6
2.5°	762.6	760.1	754.7	760.1	759.1
5°	759.1	757.2	752.7	758.2	757.2
7.5°	754.2	752.3	748.3	754.7	753.7
10°	745.9	744.9	741.9	749.3	748.8
12.5°	736.0	735.5	734.1	742.4	741.9
15°	723.7	724.2	724.2	734.1	734.1
17.5°	710.0	711.0	712.9	723.7	725.2
20°	693.7	695.7	699.6	711.9	713.9
22.5°	677.0	678.5	684.4	699.2	701.1
25°	656.4	660.3	668.2	684.9	687.8
27.5°	636.7	640.2	651.0	668.2	673.1
30°	613.6	619.0	631.8	650.5	655.9
32.5°	591.5	597.4	612.1	633.8	638.7
35°	564.9	573.8	592.5	614.1	620.0
37.5°	540.8	549.2	570.3	593.9	600.8
40°	514.3	524.6	548.7	573.8	580.7
42.5°	489.7	499.5	525.6	551.2	560.5
45°	460.2	474.0	501.0	529.0	538.9
47.5°	433.2	446.9	477.9	507.9	516.7
50°	406.1	420.9	453.3	484.3	493.1
52.5°	378.1	393.8	428.7	459.7	470.0
55°	348.6	366.8	403.2	434.6	444.0
57.5°	320.6	339.3	378.1	410.1	419.4
60°	293.0	312.2	352.0	382.5	392.4
62.5°	262.6	285.2	326.5	356.5	363.8
65°	235.0	258.1	298.4	328.4	336.8
67.5°	206.0	231.1	271.4	298.9	306.8
70°	178.5	204.5	243.4	268.9	272.4
72.5°	149.0	175.5	214.9	231.1	231.1
75°	122.4	149.5	185.9	188.8	186.3
77.5°	93.4	123.4	147.0	141.1	135.2
80°	67.4	96.9	107.7	96.9	89.0
82.5°	45.2	70.3	64.9	51.6	45.7
85°	25.1	37.4	25.6	14.3	10.3
87.5°	9.3	8.4	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)