

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: P307636

Luminaire Tested: **14FCZ2-29-UNV-L82765-CP125-W2A-U-6500K**

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: P307636  
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: 14FCZ2-29-UNV-L82765-CP125-W2A-U-6500K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET  
Light Source: (168) 6500K 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**

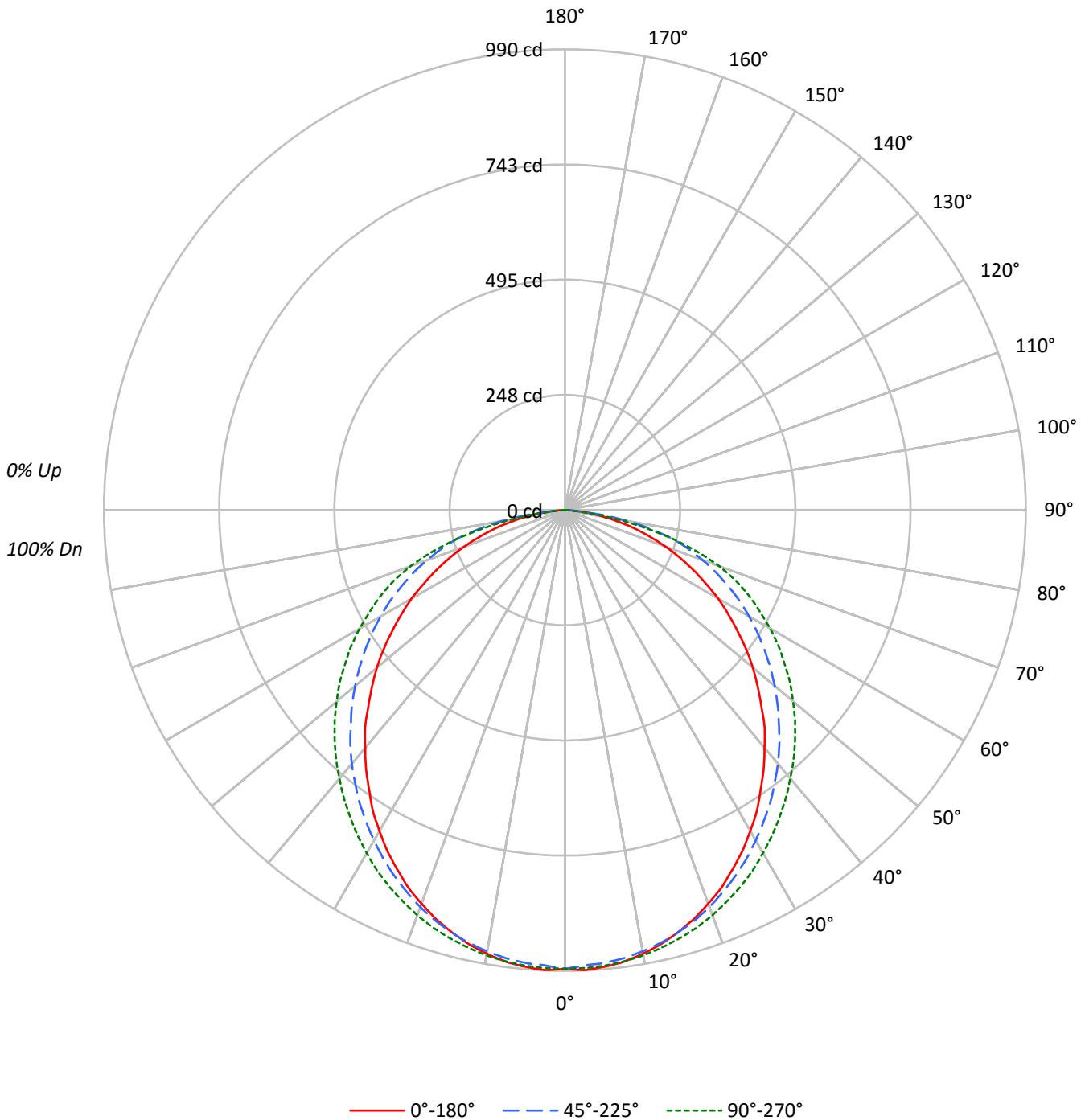
Lumens per Lamp: N/A  
Luminaire Lumens: 2861.0 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 24.9  
Input Voltage (V): NR  
Input Current (A<sub>in</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



TEST NUMBER: P307636

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-CP125-W2A-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P307636

CATALOG NUMBER: 14FC22-29-UNV-L82765-CP125-W2A-U-6500K

**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°	2652	2652	2652
5°	2661	2638	2654
10°	2645	2631	2655
15°	2616	2618	2654
20°	2578	2600	2653
25°	2529	2574	2650
30°	2474	2547	2644
35°	2408	2525	2643
40°	2344	2501	2647
45°	2272	2474	2661
50°	2206	2462	2679
55°	2122	2454	2703
60°	2046	2458	2740
65°	1941	2465	2783
70°	1822	2485	2781
75°	1651	2507	2514
80°	1354	2165	1790
85°	1003	1025	414



TEST NUMBER: P307636

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-CP125-W2A-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.3	3.3
10°-20°	266.4	9.3
20°-30°	401.3	14.0
30°-40°	481.6	16.8
40°-50°	502.0	17.5
50°-60°	464.7	16.2
60°-70°	375.5	13.1
70°-80°	228.9	8.0
80°-90°	47.3	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°	761.0	26.6
0°-40°	1242.7	43.4
0°-60°	2209.3	77.2
0°-90°	2861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2861.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	985	982	977	984	982	93
15°	939	940	940	952	952	265
25°	852	857	867	889	892	393
35°	733	744	769	797	804	459
45°	597	615	650	686	699	462
55°	452	476	523	564	576	405
65°	305	335	387	426	437	302
75°	159	194	241	245	242	167
85°	32	48	33	18	13	40
90°	0	0	0	0	0	



TEST NUMBER: P307636

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-CP125-W2A-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	985.6	985.6	985.6	985.6	985.6
2.5°	989.5	986.3	979.2	986.3	985.0
5°	985.0	982.4	976.7	983.7	982.4
7.5°	978.6	976.1	971.0	979.2	978.0
10°	967.8	966.5	962.7	972.2	971.6
12.5°	955.0	954.4	952.5	963.3	962.7
15°	939.1	939.7	939.7	952.5	952.5
17.5°	921.2	922.5	925.0	939.1	941.0
20°	900.1	902.7	907.8	923.7	926.3
22.5°	878.4	880.4	888.0	907.2	909.7
25°	851.7	856.8	867.0	888.7	892.5
27.5°	826.1	830.6	844.6	867.0	873.3
30°	796.2	803.2	819.8	844.0	851.0
32.5°	767.4	775.1	794.2	822.3	828.7
35°	733.0	744.5	768.7	796.8	804.4
37.5°	701.7	712.6	740.0	770.6	779.6
40°	667.3	680.7	711.9	744.5	753.4
42.5°	635.4	648.2	682.0	715.1	727.3
45°	597.1	615.0	650.1	686.4	699.2
47.5°	562.0	579.9	620.1	659.0	670.5
50°	526.9	546.1	588.2	628.4	639.9
52.5°	490.6	511.0	556.3	596.5	609.9
55°	452.3	475.9	523.1	563.9	576.1
57.5°	415.9	440.2	490.6	532.0	544.2
60°	380.2	405.1	456.8	496.3	509.1
62.5°	340.7	370.0	423.6	462.5	472.1
65°	304.9	334.9	387.2	426.1	437.0
67.5°	267.3	299.8	352.1	387.9	398.1
70°	231.6	265.4	315.8	349.0	353.4
72.5°	193.3	227.7	278.8	299.8	299.8
75°	158.8	193.9	241.1	245.0	241.8
77.5°	121.2	160.1	190.7	183.1	175.4
80°	87.4	125.7	139.7	125.7	115.5
82.5°	58.7	91.2	84.2	67.0	59.3
85°	32.5	48.5	33.2	18.5	13.4
87.5°	12.1	10.8	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)