

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: P306995

Luminaire Tested: **14FCZ2-20-UNV-L82765-HRP-CA125-W2A-U-5500K**

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: P306995  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-20-UNV-L82765-HRP-CA125-W2A-U-5500K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" ACRYLIC SHEET  
Light Source: (168) 5500K 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**

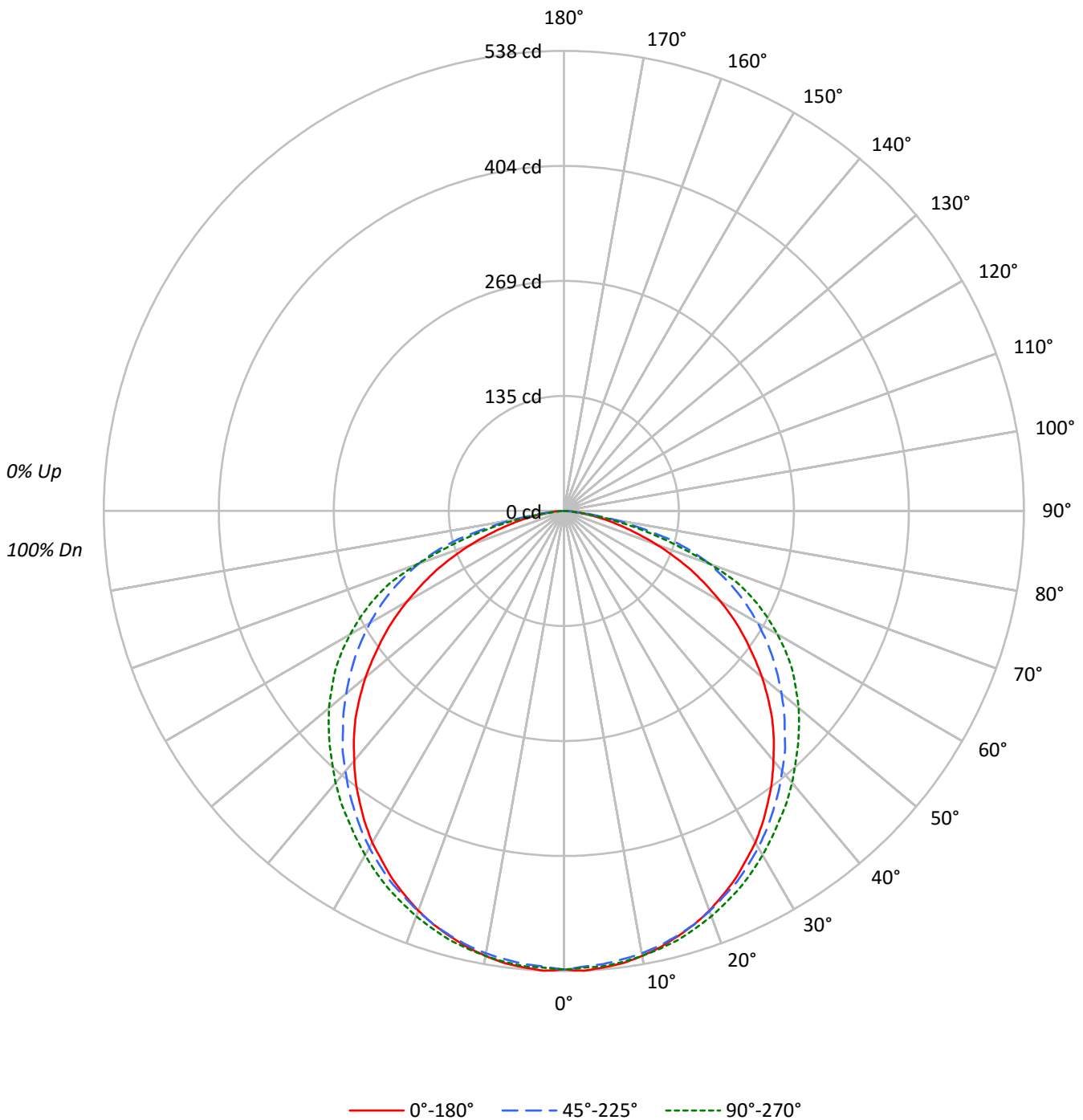
Lumens per Lamp: N/A  
Luminaire Lumens: 1579.0 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 17  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	1443	1443	1443
5°	1447	1437	1443
10°	1444	1435	1444
15°	1434	1432	1446
20°	1425	1426	1445
25°	1409	1421	1445
30°	1392	1413	1444
35°	1367	1403	1447
40°	1339	1395	1458
45°	1311	1391	1474
50°	1266	1391	1501
55°	1211	1398	1533
60°	1138	1408	1553
65°	1049	1422	1562
70°	914	1426	1437
75°	754	1327	1161
80°	592	955	776
85°	460	367	185



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	3.2
10°-20°	145.7	9.2
20°-30°	221.2	14.0
30°-40°	268.0	17.0
40°-50°	282.4	17.9
50°-60°	263.7	16.7
60°-70°	210.7	13.3
70°-80°	115.9	7.3
80°-90°	20.5	1.3
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°	417.7	26.5
0°-40°	685.7	43.4
0°-60°	1231.8	78.0
0°-90°	1579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1579.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	536	536	536	536	536	
5°	536	534	532	535	534	51
15°	515	515	514	519	519	145
25°	475	476	479	486	487	219
35°	416	420	427	438	440	260
45°	345	351	365	382	387	265
55°	258	271	298	319	327	230
65°	165	186	223	242	245	162
75°	72	104	128	115	112	78
85°	15	19	12	7	6	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	536.2	536.2	536.2	536.2	536.2
2.5°	538.2	536.7	533.3	536.2	534.7
5°	535.7	534.3	531.8	535.2	534.3
7.5°	533.3	531.3	528.8	532.8	531.8
10°	528.3	526.8	525.3	528.8	528.3
12.5°	522.3	521.8	520.3	524.3	523.8
15°	514.9	514.9	513.9	518.9	518.9
17.5°	506.9	506.4	506.9	512.4	511.9
20°	497.5	497.5	498.0	504.5	504.5
22.5°	486.1	486.6	488.1	496.0	495.5
25°	474.7	475.7	478.6	485.6	486.6
27.5°	460.8	463.2	466.7	475.2	476.2
30°	447.9	449.3	454.8	462.8	464.7
32.5°	432.5	435.4	441.4	450.3	452.8
35°	416.1	420.1	427.0	437.9	440.4
37.5°	399.7	403.2	412.6	424.0	428.5
40°	381.3	387.3	397.2	410.1	415.1
42.5°	363.4	369.4	382.8	396.2	400.7
45°	344.6	351.0	365.4	381.8	387.3
47.5°	323.7	331.2	349.5	366.9	372.9
50°	302.4	311.8	332.2	351.5	358.5
52.5°	280.0	292.0	315.3	335.6	342.1
55°	258.2	271.1	297.9	318.8	326.7
57.5°	235.8	249.7	280.0	303.9	308.3
60°	211.5	228.4	261.7	282.5	288.5
62.5°	187.7	207.0	242.8	262.7	267.6
65°	164.8	185.7	223.4	241.8	245.3
67.5°	140.0	164.8	202.1	219.0	220.0
70°	116.2	145.0	181.2	189.2	182.7
72.5°	92.8	123.6	156.9	150.4	145.0
75°	72.5	103.8	127.6	114.7	111.7
77.5°	53.6	84.9	91.4	84.4	78.9
80°	38.2	67.0	61.6	52.6	50.1
82.5°	26.3	42.2	33.8	26.3	22.8
85°	14.9	18.9	11.9	7.4	6.0
87.5°	6.5	4.5	2.5	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)