

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: P307062

Luminaire Tested: **14FCZ2-25-UNV-L82765-HRP-CP250-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: P307062  
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: 14FCZ2-25-UNV-L82765-HRP-CP250-W2A-U-3000K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.250"  
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**

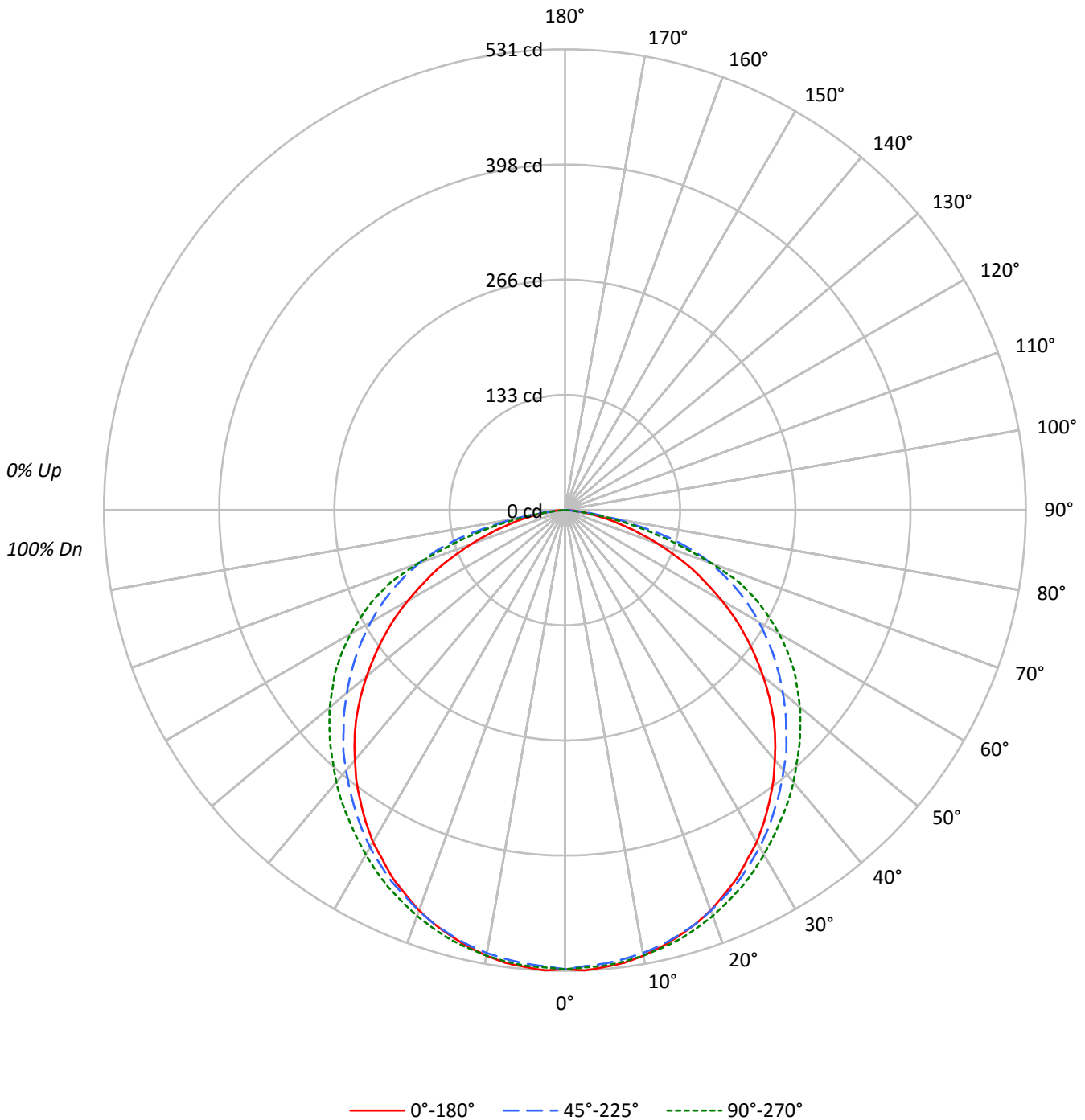
Lumens per Lamp: N/A  
Luminaire Lumens: 1558.0 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.5  
Input Voltage (V): NR  
Input Current (A<sub>in</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	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°	1424	1424	1424
5°	1428	1417	1424
10°	1424	1416	1424
15°	1415	1413	1426
20°	1406	1407	1426
25°	1391	1402	1425
30°	1373	1395	1425
35°	1349	1384	1428
40°	1322	1377	1439
45°	1294	1372	1454
50°	1249	1372	1481
55°	1195	1379	1513
60°	1123	1390	1532
65°	1036	1404	1541
70°	902	1407	1419
75°	743	1309	1146
80°	584	941	767
85°	454	364	182



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.1	3.2
10°-20°	143.7	9.2
20°-30°	218.3	14.0
30°-40°	264.5	17.0
40°-50°	278.7	17.9
50°-60°	260.2	16.7
60°-70°	207.9	13.3
70°-80°	114.4	7.3
80°-90°	20.2	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°	412.1	26.5
0°-40°	676.6	43.4
0°-60°	1215.5	78.0
0°-90°	1558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1558.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	529	529	529	529	529	
5°	529	527	525	528	527	50
15°	508	508	507	512	512	143
25°	468	469	472	479	480	216
35°	410	414	421	432	435	257
45°	340	346	361	377	382	262
55°	255	268	294	314	322	227
65°	163	183	220	239	242	160
75°	72	102	126	113	110	77
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°	529.1	529.1	529.1	529.1	529.1
2.5°	531.1	529.6	526.2	529.1	527.6
5°	528.6	527.1	524.7	528.1	527.1
7.5°	526.2	524.2	521.8	525.7	524.7
10°	521.3	519.8	518.3	521.8	521.3
12.5°	515.4	514.9	513.4	517.3	516.9
15°	508.0	508.0	507.1	512.0	512.0
17.5°	500.2	499.7	500.2	505.6	505.1
20°	490.9	490.9	491.4	497.8	497.8
22.5°	479.6	480.1	481.6	489.4	488.9
25°	468.4	469.3	472.3	479.1	480.1
27.5°	454.6	457.1	460.5	468.8	469.8
30°	441.9	443.4	448.8	456.6	458.6
32.5°	426.7	429.7	435.5	444.3	446.8
35°	410.5	414.5	421.3	432.1	434.6
37.5°	394.4	397.8	407.1	418.4	422.8
40°	376.3	382.1	391.9	404.7	409.6
42.5°	358.6	364.5	377.7	390.9	395.4
45°	340.0	346.4	360.6	376.7	382.1
47.5°	319.4	326.8	344.9	362.0	367.9
50°	298.4	307.7	327.8	346.9	353.7
52.5°	276.3	288.1	311.1	331.2	337.5
55°	254.8	267.5	293.9	314.5	322.4
57.5°	232.7	246.4	276.3	299.8	304.2
60°	208.7	225.4	258.2	278.8	284.6
62.5°	185.2	204.3	239.6	259.2	264.1
65°	162.7	183.2	220.5	238.6	242.0
67.5°	138.2	162.7	199.4	216.1	217.0
70°	114.6	143.1	178.8	186.7	180.3
72.5°	91.6	122.0	154.8	148.4	143.1
75°	71.5	102.4	125.9	113.2	110.2
77.5°	52.9	83.8	90.1	83.3	77.9
80°	37.7	66.1	60.7	51.9	49.5
82.5°	26.0	41.6	33.3	26.0	22.5
85°	14.7	18.6	11.8	7.3	5.9
87.5°	6.4	4.4	2.4	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)