

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: P307066

Luminaire Tested: **14FCZ2-25-UNV-L82765-HRP-CP250-W2A-U-5000K**

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: P307066  
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-5000K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.250"  
POLYCARB SHEET  
Light Source: (168) 5000K 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**

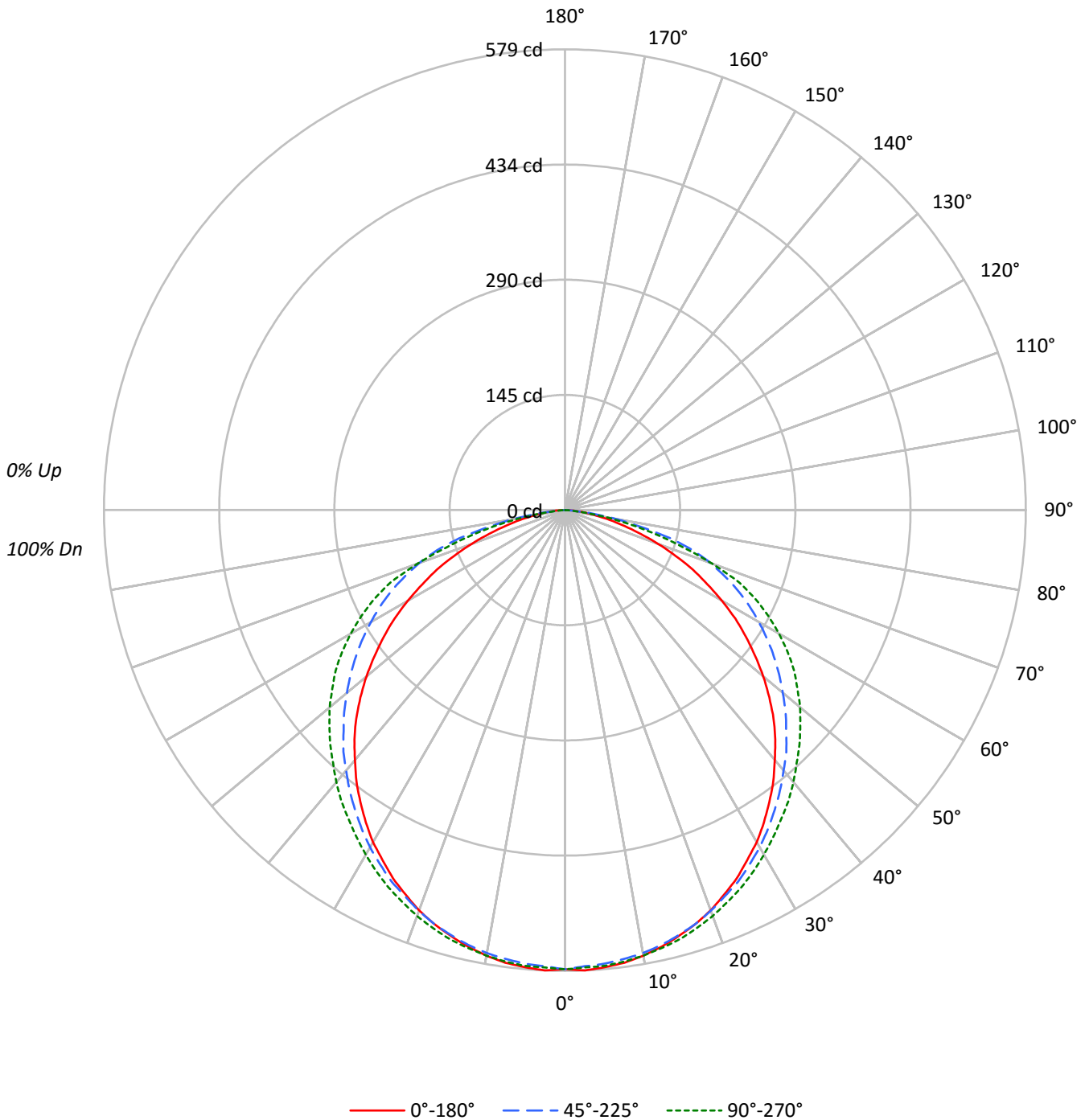
Lumens per Lamp: N/A  
Luminaire Lumens: 1699.0 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.1  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	1553	1553	1553
5°	1557	1546	1553
10°	1553	1544	1553
15°	1543	1540	1555
20°	1533	1535	1554
25°	1516	1529	1555
30°	1497	1521	1554
35°	1471	1509	1557
40°	1441	1501	1569
45°	1411	1496	1586
50°	1362	1496	1615
55°	1303	1504	1649
60°	1225	1515	1671
65°	1130	1531	1680
70°	983	1534	1547
75°	811	1428	1250
80°	637	1026	837
85°	494	395	198



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.6	3.2
10°-20°	156.7	9.2
20°-30°	238.0	14.0
30°-40°	288.4	17.0
40°-50°	303.9	17.9
50°-60°	283.7	16.7
60°-70°	226.7	13.3
70°-80°	124.8	7.3
80°-90°	22.0	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°	449.4	26.5
0°-40°	737.8	43.4
0°-60°	1325.4	78.0
0°-90°	1699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1699.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	577	577	577	577	577	
5°	576	575	572	576	575	55
15°	554	554	553	558	558	156
25°	511	512	515	522	524	235
35°	448	452	460	471	474	280
45°	371	378	393	411	417	285
55°	278	292	320	343	352	248
65°	177	200	240	260	264	175
75°	78	112	137	123	120	84
85°	16	20	13	8	6	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	577.0	577.0	577.0	577.0	577.0
2.5°	579.1	577.5	573.8	577.0	575.4
5°	576.5	574.9	572.2	575.9	574.9
7.5°	573.8	571.6	569.0	573.2	572.2
10°	568.4	566.8	565.2	569.0	568.4
12.5°	562.0	561.5	559.9	564.2	563.6
15°	554.0	554.0	552.9	558.3	558.3
17.5°	545.5	544.9	545.5	551.3	550.8
20°	535.3	535.3	535.9	542.8	542.8
22.5°	523.0	523.6	525.2	533.7	533.2
25°	510.7	511.8	515.0	522.5	523.6
27.5°	495.8	498.5	502.2	511.3	512.3
30°	481.9	483.5	489.4	497.9	500.1
32.5°	465.3	468.5	474.9	484.6	487.2
35°	447.7	452.0	459.5	471.2	473.9
37.5°	430.1	433.8	444.0	456.2	461.1
40°	410.3	416.7	427.4	441.3	446.6
42.5°	391.1	397.5	411.9	426.3	431.1
45°	370.8	377.7	393.2	410.8	416.7
47.5°	348.3	356.3	376.1	394.8	401.2
50°	325.4	335.5	357.4	378.2	385.7
52.5°	301.3	314.1	339.2	361.2	368.1
55°	277.8	291.7	320.5	343.0	351.5
57.5°	253.8	268.7	301.3	327.0	331.8
60°	227.6	245.8	281.5	304.0	310.4
62.5°	201.9	222.8	261.2	282.6	288.0
65°	177.4	199.8	240.4	260.2	263.9
67.5°	150.7	177.4	217.4	235.6	236.7
70°	125.0	156.0	195.0	203.5	196.6
72.5°	99.9	133.0	168.8	161.9	156.0
75°	78.0	111.7	137.3	123.4	120.2
77.5°	57.7	91.4	98.3	90.8	84.9
80°	41.1	72.1	66.2	56.6	54.0
82.5°	28.3	45.4	36.3	28.3	24.6
85°	16.0	20.3	12.8	8.0	6.4
87.5°	6.9	4.8	2.7	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)