

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: P307287

Luminaire Tested: **14FCZ2-20-UNV-L82765-RDP-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: P307287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)  
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-RDP-CP250-W2A-U-3000K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 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**

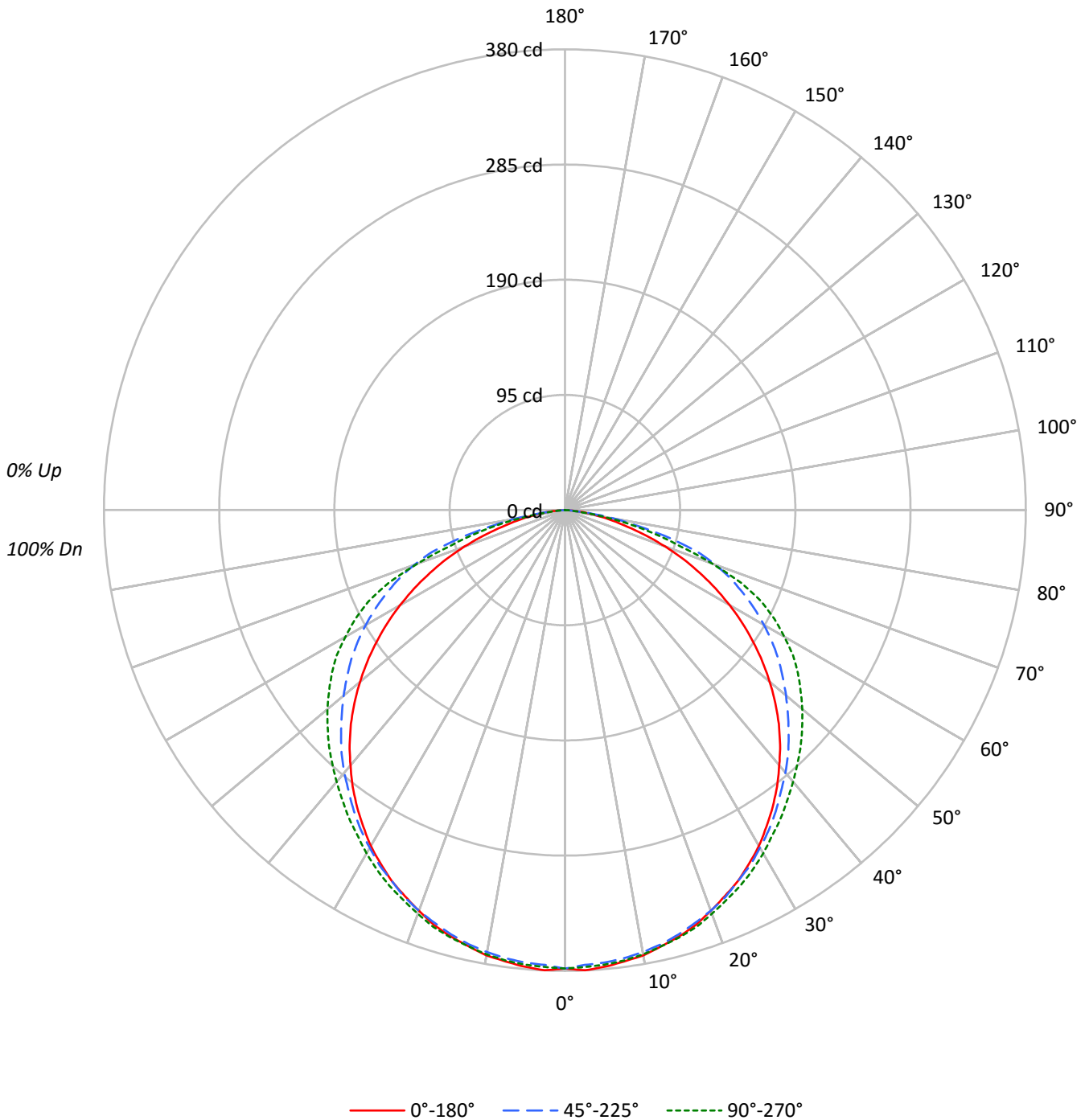
Lumens per Lamp: N/A  
Luminaire Lumens: 1129.0 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	1017	1017	1017
5°	1021	1012	1017
10°	1019	1012	1016
15°	1014	1009	1017
20°	1007	1007	1015
25°	1002	1002	1015
30°	994	1000	1016
35°	982	996	1019
40°	966	994	1028
45°	949	993	1047
50°	923	996	1070
55°	889	1009	1100
60°	844	1020	1124
65°	780	1033	1139
70°	693	1040	1020
75°	559	935	815
80°	437	656	533
85°	299	191	136



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.8	3.2
10°-20°	102.7	9.1
20°-30°	156.4	13.8
30°-40°	190.4	16.9
40°-50°	202.0	17.9
50°-60°	190.7	16.9
60°-70°	154.0	13.6
70°-80°	83.5	7.4
80°-90°	13.5	1.2
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°	294.8	26.1
0°-40°	485.3	43.0
0°-60°	878.0	77.8
0°-90°	1129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1129.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	378	378	378	378	378	
5°	378	377	375	377	376	36
15°	364	363	362	365	365	103
25°	338	337	338	341	342	155
35°	299	301	303	309	310	187
45°	249	253	261	271	275	192
55°	190	197	215	229	234	169
65°	122	138	162	175	179	121
75°	54	78	90	81	78	59
85°	10	11	6	5	4	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	378.1	378.1	378.1	378.1	378.1
2.5°	379.9	378.1	375.5	378.1	377.2
5°	378.1	377.2	374.6	377.2	376.4
7.5°	375.5	375.5	372.8	374.6	374.6
10°	372.8	372.0	370.2	372.8	372.0
12.5°	368.4	367.6	366.7	369.3	368.4
15°	364.0	363.1	362.3	364.9	364.9
17.5°	358.7	357.9	357.0	360.5	360.5
20°	351.7	351.7	351.7	355.2	354.3
22.5°	344.6	344.6	345.5	349.0	348.2
25°	337.6	336.7	337.6	341.1	342.0
27.5°	328.8	329.7	330.5	334.1	334.9
30°	320.0	320.8	321.7	326.1	327.0
32.5°	309.4	311.1	312.9	318.2	318.2
35°	298.8	300.6	303.2	309.4	310.3
37.5°	287.3	289.1	292.6	299.7	301.4
40°	275.0	277.6	282.9	290.0	292.6
42.5°	262.7	266.2	272.4	280.3	283.8
45°	249.4	253.0	260.9	270.6	275.0
47.5°	235.3	239.7	249.4	261.8	265.3
50°	220.4	226.5	238.0	251.2	255.6
52.5°	205.4	212.4	226.5	240.6	245.0
55°	189.5	197.4	215.1	229.2	234.5
57.5°	173.6	182.5	202.7	217.7	223.0
60°	156.9	167.5	189.5	204.5	208.9
62.5°	140.1	152.5	176.3	191.3	194.8
65°	122.5	137.5	162.2	175.4	178.9
67.5°	105.8	123.4	148.1	157.8	157.8
70°	88.1	107.5	132.2	134.9	129.6
72.5°	70.5	92.5	114.6	104.9	100.5
75°	53.8	78.4	89.9	81.1	78.4
77.5°	40.5	63.5	63.5	58.2	56.4
80°	28.2	48.5	42.3	37.0	34.4
82.5°	18.5	27.3	22.0	17.6	15.0
85°	9.7	10.6	6.2	5.3	4.4
87.5°	3.5	1.8	0.9	1.8	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)