

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: P307360

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-3500K**

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: P307360
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: 14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-3500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 3500K 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: 1716.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

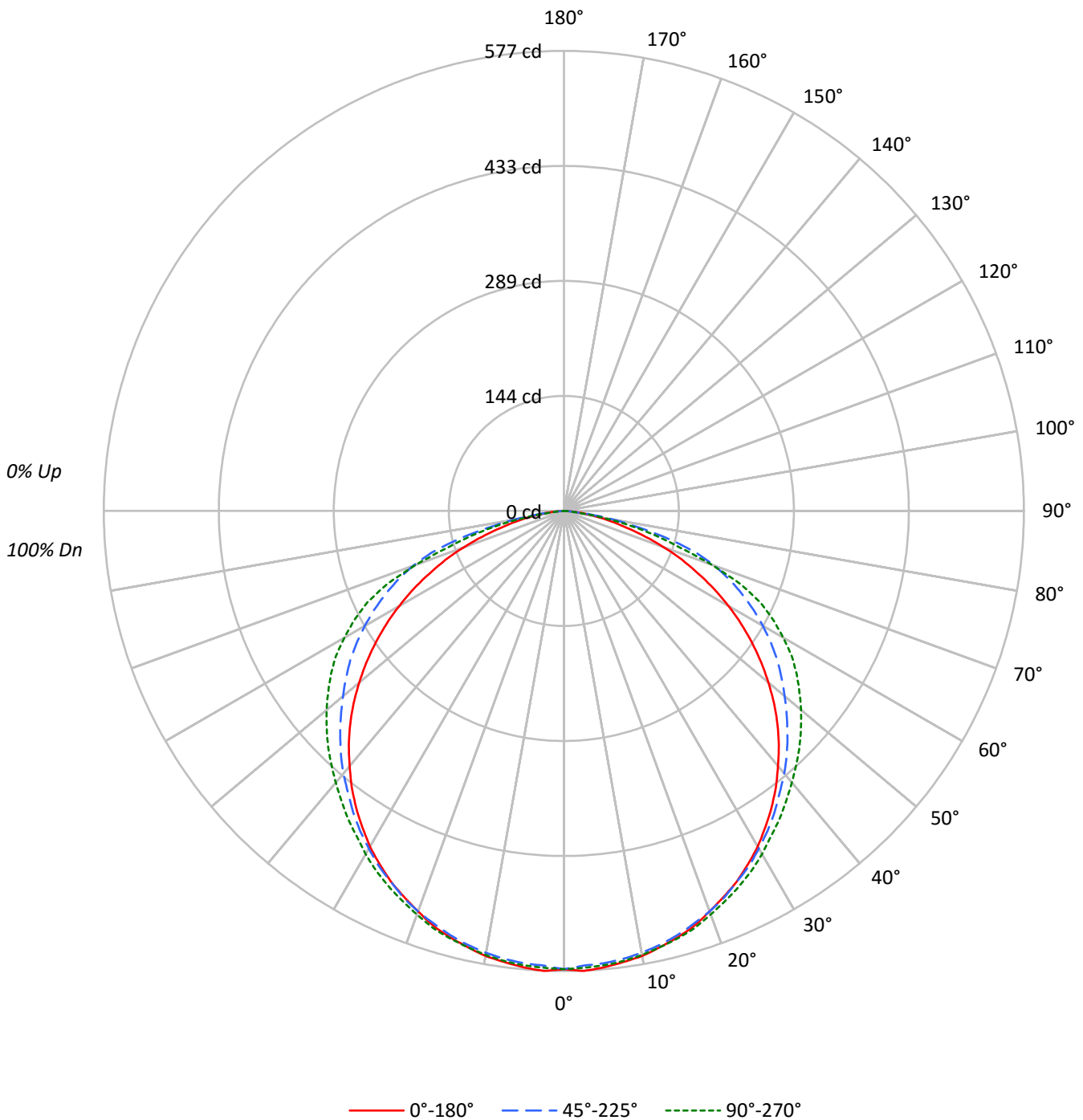
Input Watts (W): 23.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1547	1547	1547
5°	1552	1538	1545
10°	1549	1538	1545
15°	1541	1534	1545
20°	1531	1531	1542
25°	1523	1523	1543
30°	1511	1519	1544
35°	1492	1514	1549
40°	1468	1511	1563
45°	1443	1509	1591
50°	1402	1514	1626
55°	1351	1534	1672
60°	1284	1550	1709
65°	1186	1570	1732
70°	1054	1581	1549
75°	849	1420	1239
80°	665	996	809
85°	454	290	207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	3.2
10°-20°	156.1	9.1
20°-30°	237.6	13.8
30°-40°	289.5	16.9
40°-50°	307.1	17.9
50°-60°	289.8	16.9
60°-70°	234.0	13.6
70°-80°	126.9	7.4
80°-90°	20.5	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°	448.1	26.1
0°-40°	737.6	43.0
0°-60°	1334.5	77.8
0°-90°	1716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	575	575	575	575	575	
5°	575	573	569	573	572	55
15°	553	552	551	555	555	156
25°	513	512	513	518	520	236
35°	454	457	461	470	472	284
45°	379	384	397	411	418	292
55°	288	300	327	348	356	257
65°	186	209	246	267	272	185
75°	82	119	137	123	119	89
85°	15	16	9	8	7	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	574.7	574.7	574.7	574.7	574.7
2.5°	577.4	574.7	570.7	574.7	573.4
5°	574.7	573.4	569.4	573.4	572.1
7.5°	570.7	570.7	566.7	569.4	569.4
10°	566.7	565.4	562.7	566.7	565.4
12.5°	560.0	558.7	557.3	561.3	560.0
15°	553.3	552.0	550.6	554.6	554.6
17.5°	545.3	543.9	542.6	547.9	547.9
20°	534.5	534.5	534.5	539.9	538.6
22.5°	523.8	523.8	525.2	530.5	529.2
25°	513.1	511.8	513.1	518.5	519.8
27.5°	499.7	501.0	502.4	507.7	509.1
30°	486.3	487.7	489.0	495.7	497.0
32.5°	470.2	472.9	475.6	483.6	483.6
35°	454.2	456.8	460.9	470.2	471.6
37.5°	436.7	439.4	444.8	455.5	458.2
40°	418.0	422.0	430.0	440.8	444.8
42.5°	399.2	404.6	414.0	426.0	431.4
45°	379.1	384.5	396.6	411.3	418.0
47.5°	357.7	364.4	379.1	397.9	403.3
50°	334.9	344.3	361.7	381.8	388.5
52.5°	312.2	322.9	344.3	365.7	372.4
55°	288.0	300.1	326.9	348.3	356.4
57.5°	263.9	277.3	308.1	330.9	338.9
60°	238.5	254.5	288.0	310.8	317.5
62.5°	213.0	231.8	267.9	290.7	296.1
65°	186.2	209.0	246.5	266.6	272.0
67.5°	160.8	187.6	225.1	239.8	239.8
70°	134.0	163.4	201.0	205.0	196.9
72.5°	107.2	140.7	174.2	159.4	152.7
75°	81.7	119.2	136.6	123.3	119.2
77.5°	61.6	96.5	96.5	88.4	85.7
80°	42.9	73.7	64.3	56.3	52.2
82.5°	28.1	41.5	33.5	26.8	22.8
85°	14.7	16.1	9.4	8.0	6.7
87.5°	5.4	2.7	1.3	2.7	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)