

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: P307350

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CA125-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: P307350
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-CA125-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC 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: 1692.0 lumens
Efficiency: N/A
Efficacy: 71.7 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

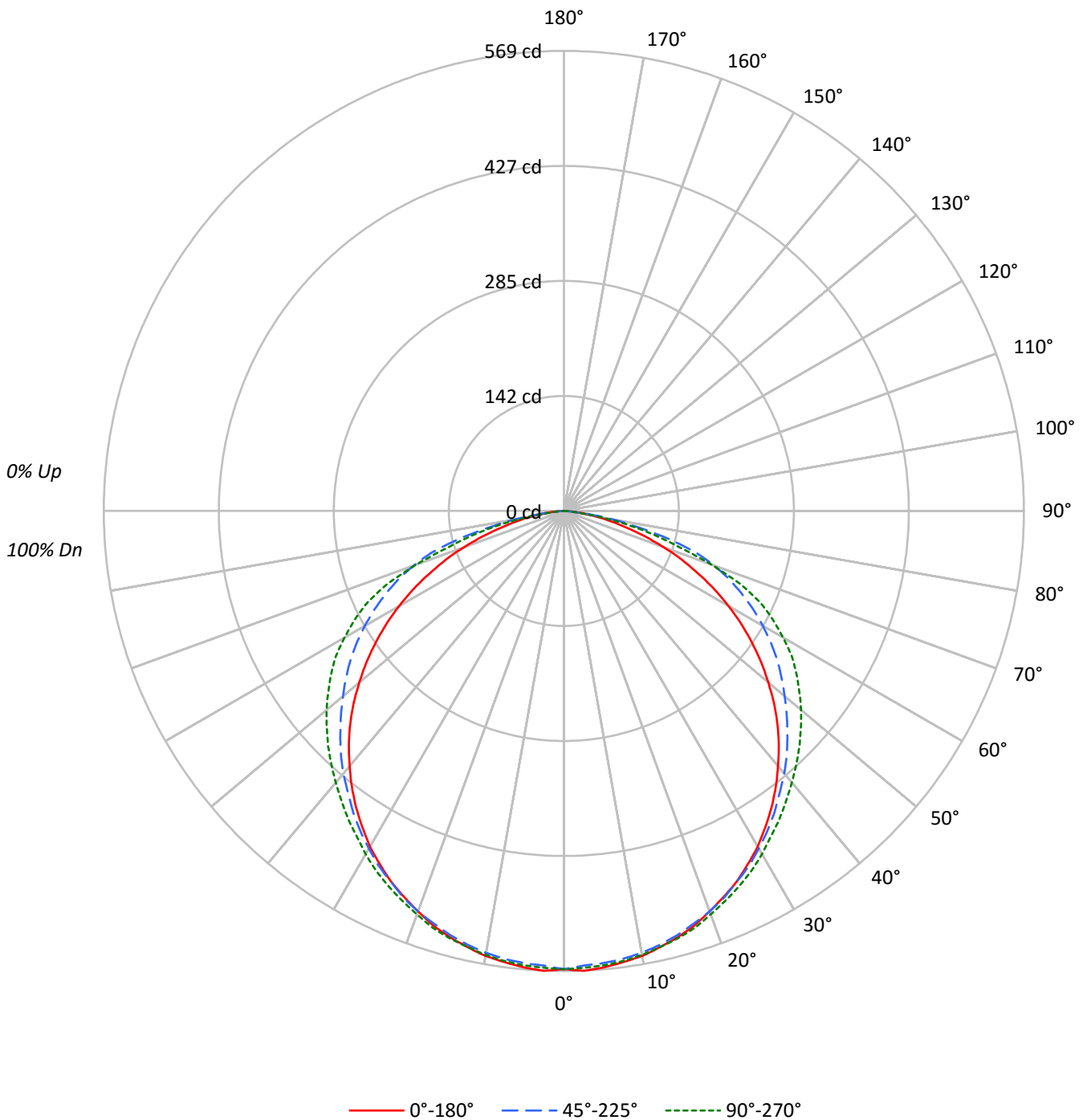
Input Watts (W): 23.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1525	1525	1525
5°	1531	1516	1524
10°	1527	1516	1523
15°	1520	1512	1524
20°	1509	1509	1521
25°	1502	1502	1522
30°	1490	1498	1523
35°	1471	1493	1528
40°	1448	1489	1541
45°	1423	1488	1568
50°	1382	1493	1604
55°	1332	1512	1649
60°	1265	1528	1685
65°	1169	1548	1708
70°	1039	1559	1528
75°	838	1400	1223
80°	656	982	798
85°	448	284	204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	3.2
10°-20°	153.9	9.1
20°-30°	234.3	13.8
30°-40°	285.4	16.9
40°-50°	302.8	17.9
50°-60°	285.8	16.9
60°-70°	230.7	13.6
70°-80°	125.2	7.4
80°-90°	20.2	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°	441.9	26.1
0°-40°	727.3	43.0
0°-60°	1315.8	77.8
0°-90°	1692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	567	565	561	565	564	54
15°	546	544	543	547	547	154
25°	506	505	506	511	512	233
35°	448	450	454	464	465	280
45°	374	379	391	406	412	288
55°	284	296	322	344	351	254
65°	184	206	243	263	268	182
75°	81	118	135	122	118	88
85°	14	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°	566.7	566.7	566.7	566.7	566.7
2.5°	569.3	566.7	562.7	566.7	565.4
5°	566.7	565.4	561.4	565.4	564.1
7.5°	562.7	562.7	558.8	561.4	561.4
10°	558.8	557.4	554.8	558.8	557.4
12.5°	552.2	550.8	549.5	553.5	552.2
15°	545.6	544.2	542.9	546.9	546.9
17.5°	537.6	536.3	535.0	540.3	540.3
20°	527.1	527.1	527.1	532.3	531.0
22.5°	516.5	516.5	517.8	523.1	521.8
25°	505.9	504.6	505.9	511.2	512.5
27.5°	492.7	494.0	495.4	500.6	502.0
30°	479.5	480.8	482.2	488.8	490.1
32.5°	463.7	466.3	468.9	476.9	476.9
35°	447.8	450.4	454.4	463.7	465.0
37.5°	430.6	433.3	438.6	449.1	451.8
40°	412.1	416.1	424.0	434.6	438.6
42.5°	393.6	398.9	408.2	420.1	425.4
45°	373.8	379.1	391.0	405.5	412.1
47.5°	352.7	359.3	373.8	392.3	397.6
50°	330.2	339.5	356.7	376.5	383.1
52.5°	307.8	318.4	339.5	360.6	367.2
55°	284.0	295.9	322.3	343.5	351.4
57.5°	260.2	273.4	303.8	326.3	334.2
60°	235.1	251.0	284.0	306.5	313.1
62.5°	210.0	228.5	264.2	286.6	291.9
65°	183.6	206.1	243.1	262.9	268.2
67.5°	158.5	184.9	221.9	236.5	236.5
70°	132.1	161.2	198.1	202.1	194.2
72.5°	105.7	138.7	171.7	157.2	150.6
75°	80.6	117.6	134.7	121.5	117.6
77.5°	60.8	95.1	95.1	87.2	84.5
80°	42.3	72.7	63.4	55.5	51.5
82.5°	27.7	40.9	33.0	26.4	22.5
85°	14.5	15.9	9.2	7.9	6.6
87.5°	5.3	2.6	1.3	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)