

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: P307351

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CA125-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: P307351
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-3500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC 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: 1750.0 lumens
Efficiency: N/A
Efficacy: 73.2 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

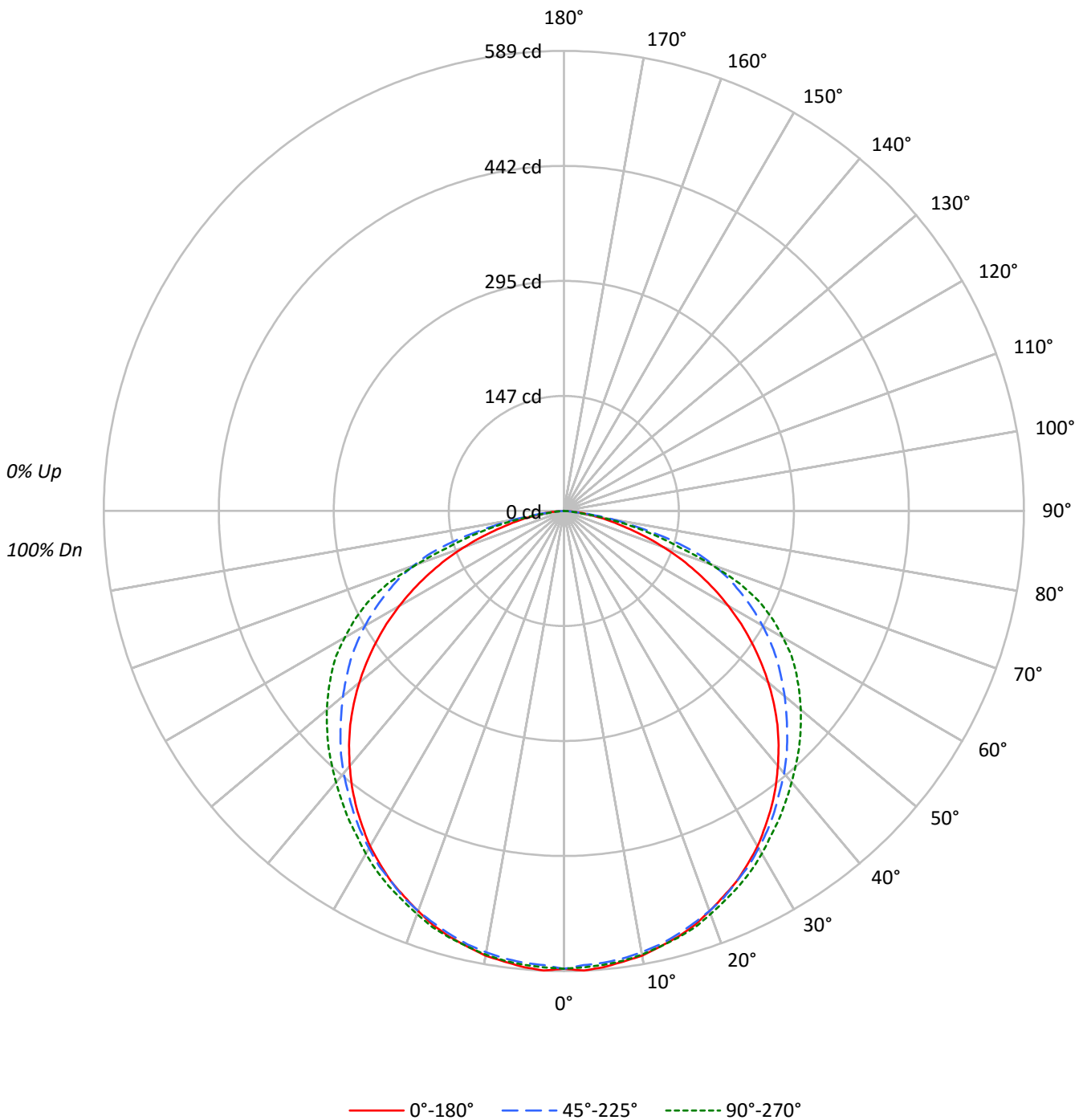
Input Watts (W): 23.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1577	1577	1577
5°	1583	1569	1576
10°	1579	1568	1576
15°	1572	1564	1576
20°	1561	1561	1573
25°	1554	1554	1574
30°	1541	1550	1575
35°	1522	1544	1580
40°	1498	1541	1593
45°	1471	1539	1622
50°	1430	1544	1659
55°	1378	1564	1705
60°	1309	1581	1743
65°	1209	1601	1766
70°	1075	1612	1580
75°	866	1449	1264
80°	677	1017	826
85°	463	296	210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	3.2
10°-20°	159.2	9.1
20°-30°	242.4	13.8
30°-40°	295.2	16.9
40°-50°	313.2	17.9
50°-60°	295.6	16.9
60°-70°	238.6	13.6
70°-80°	129.5	7.4
80°-90°	21.0	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°	457.0	26.1
0°-40°	752.2	43.0
0°-60°	1360.9	77.8
0°-90°	1750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	586	585	581	585	583	56
15°	564	563	562	566	566	159
25°	523	522	523	529	530	241
35°	463	466	470	480	481	290
45°	387	392	404	419	426	298
55°	294	306	333	355	363	262
65°	190	213	251	272	277	188
75°	83	122	139	126	122	91
85°	15	16	10	8	7	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	586.1	586.1	586.1	586.1	586.1
2.5°	588.9	586.1	582.0	586.1	584.8
5°	586.1	584.8	580.7	584.8	583.4
7.5°	582.0	582.0	577.9	580.7	580.7
10°	577.9	576.6	573.8	577.9	576.6
12.5°	571.1	569.7	568.4	572.5	571.1
15°	564.3	562.9	561.5	565.6	565.6
17.5°	556.1	554.7	553.3	558.8	558.8
20°	545.1	545.1	545.1	550.6	549.2
22.5°	534.2	534.2	535.6	541.0	539.7
25°	523.3	521.9	523.3	528.7	530.1
27.5°	509.6	511.0	512.3	517.8	519.2
30°	495.9	497.3	498.7	505.5	506.9
32.5°	479.6	482.3	485.0	493.2	493.2
35°	463.2	465.9	470.0	479.6	480.9
37.5°	445.4	448.1	453.6	464.5	467.3
40°	426.3	430.4	438.6	449.5	453.6
42.5°	407.1	412.6	422.2	434.5	439.9
45°	386.6	392.1	404.4	419.4	426.3
47.5°	364.8	371.6	386.6	405.8	411.2
50°	341.6	351.1	368.9	389.4	396.2
52.5°	318.3	329.3	351.1	373.0	379.8
55°	293.7	306.0	333.4	355.2	363.4
57.5°	269.2	282.8	314.2	337.5	345.7
60°	243.2	259.6	293.7	317.0	323.8
62.5°	217.2	236.4	273.2	296.5	301.9
65°	189.9	213.1	251.4	271.9	277.3
67.5°	163.9	191.3	229.5	244.6	244.6
70°	136.6	166.7	204.9	209.0	200.8
72.5°	109.3	143.5	177.6	162.6	155.8
75°	83.3	121.6	139.4	125.7	121.6
77.5°	62.8	98.4	98.4	90.2	87.4
80°	43.7	75.1	65.6	57.4	53.3
82.5°	28.7	42.4	34.2	27.3	23.2
85°	15.0	16.4	9.6	8.2	6.8
87.5°	5.5	2.7	1.4	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)