

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: P307358

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-2700K**

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: P307358
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-2700K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 2700K 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: 1612.0 lumens
Efficiency: N/A
Efficacy: 67.7 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

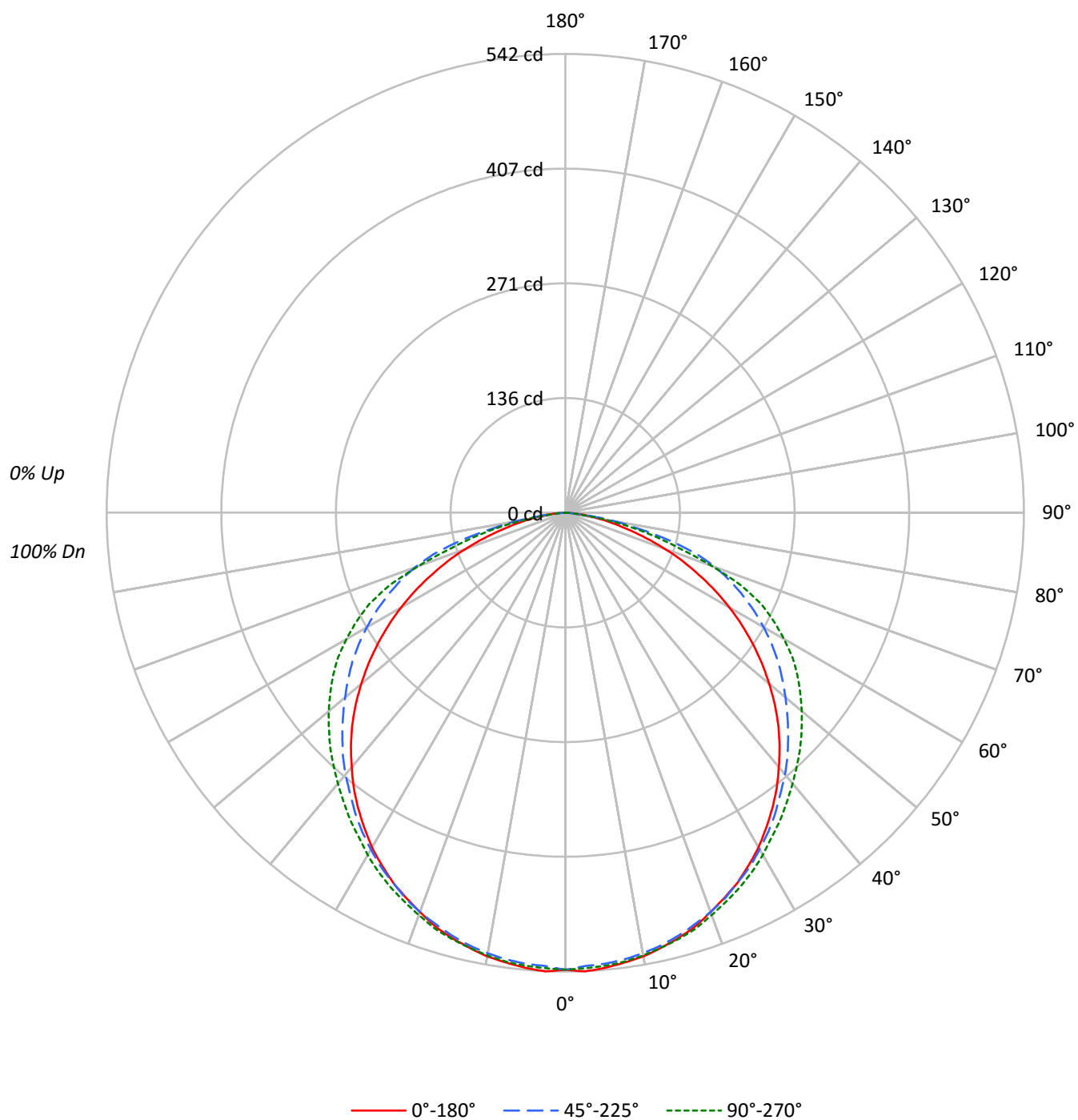
Input Watts (W): 23.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1453	1453	1453
5°	1458	1445	1452
10°	1455	1444	1451
15°	1448	1441	1451
20°	1438	1438	1449
25°	1431	1431	1450
30°	1419	1427	1451
35°	1401	1422	1455
40°	1379	1419	1468
45°	1356	1418	1494
50°	1317	1423	1528
55°	1270	1441	1571
60°	1206	1456	1605
65°	1114	1475	1627
70°	991	1485	1456
75°	799	1335	1164
80°	625	936	761
85°	426	272	195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	3.2
10°-20°	146.6	9.1
20°-30°	223.2	13.8
30°-40°	271.9	16.9
40°-50°	288.5	17.9
50°-60°	272.3	16.9
60°-70°	219.8	13.6
70°-80°	119.3	7.4
80°-90°	19.3	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°	421.0	26.1
0°-40°	692.9	43.0
0°-60°	1253.6	77.8
0°-90°	1612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	540	539	535	539	537	51
15°	520	518	517	521	521	147
25°	482	481	482	487	488	222
35°	427	429	433	442	443	267
45°	356	361	372	386	393	274
55°	271	282	307	327	335	242
65°	175	196	232	250	256	173
75°	77	112	128	116	112	84
85°	14	15	9	8	6	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	539.9	539.9	539.9	539.9	539.9
2.5°	542.4	539.9	536.1	539.9	538.6
5°	539.9	538.6	534.9	538.6	537.4
7.5°	536.1	536.1	532.3	534.9	534.9
10°	532.3	531.1	528.6	532.3	531.1
12.5°	526.1	524.8	523.5	527.3	526.1
15°	519.8	518.5	517.2	521.0	521.0
17.5°	512.2	511.0	509.7	514.7	514.7
20°	502.1	502.1	502.1	507.2	505.9
22.5°	492.1	492.1	493.3	498.4	497.1
25°	482.0	480.8	482.0	487.0	488.3
27.5°	469.4	470.7	471.9	477.0	478.2
30°	456.8	458.1	459.4	465.6	466.9
32.5°	441.7	444.3	446.8	454.3	454.3
35°	426.6	429.2	432.9	441.7	443.0
37.5°	410.3	412.8	417.8	427.9	430.4
40°	392.7	396.4	404.0	414.0	417.8
42.5°	375.0	380.1	388.9	400.2	405.2
45°	356.2	361.2	372.5	386.4	392.7
47.5°	336.0	342.3	356.2	373.8	378.8
50°	314.6	323.4	339.8	358.7	365.0
52.5°	293.2	303.3	323.4	343.6	349.9
55°	270.6	281.9	307.1	327.2	334.8
57.5°	247.9	260.5	289.5	310.9	318.4
60°	224.0	239.1	270.6	292.0	298.3
62.5°	200.1	217.7	251.7	273.1	278.1
65°	174.9	196.3	231.6	250.4	255.5
67.5°	151.0	176.2	211.4	225.3	225.3
70°	125.9	153.5	188.8	192.6	185.0
72.5°	100.7	132.1	163.6	149.8	143.5
75°	76.8	112.0	128.4	115.8	112.0
77.5°	57.9	90.6	90.6	83.1	80.5
80°	40.3	69.2	60.4	52.9	49.1
82.5°	26.4	39.0	31.5	25.2	21.4
85°	13.8	15.1	8.8	7.6	6.3
87.5°	5.0	2.5	1.3	2.5	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)