

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: P307312

Luminaire Tested: **14FCZ2-25-UNV-L82765-RDP-CA125-W2A-U-6500K**

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: P307312
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: 14FCZ2-25-UNV-L82765-RDP-CA125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET
Light Source: (168) 6500K 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: 1567.0 lumens
Efficiency: N/A
Efficacy: 76.4 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

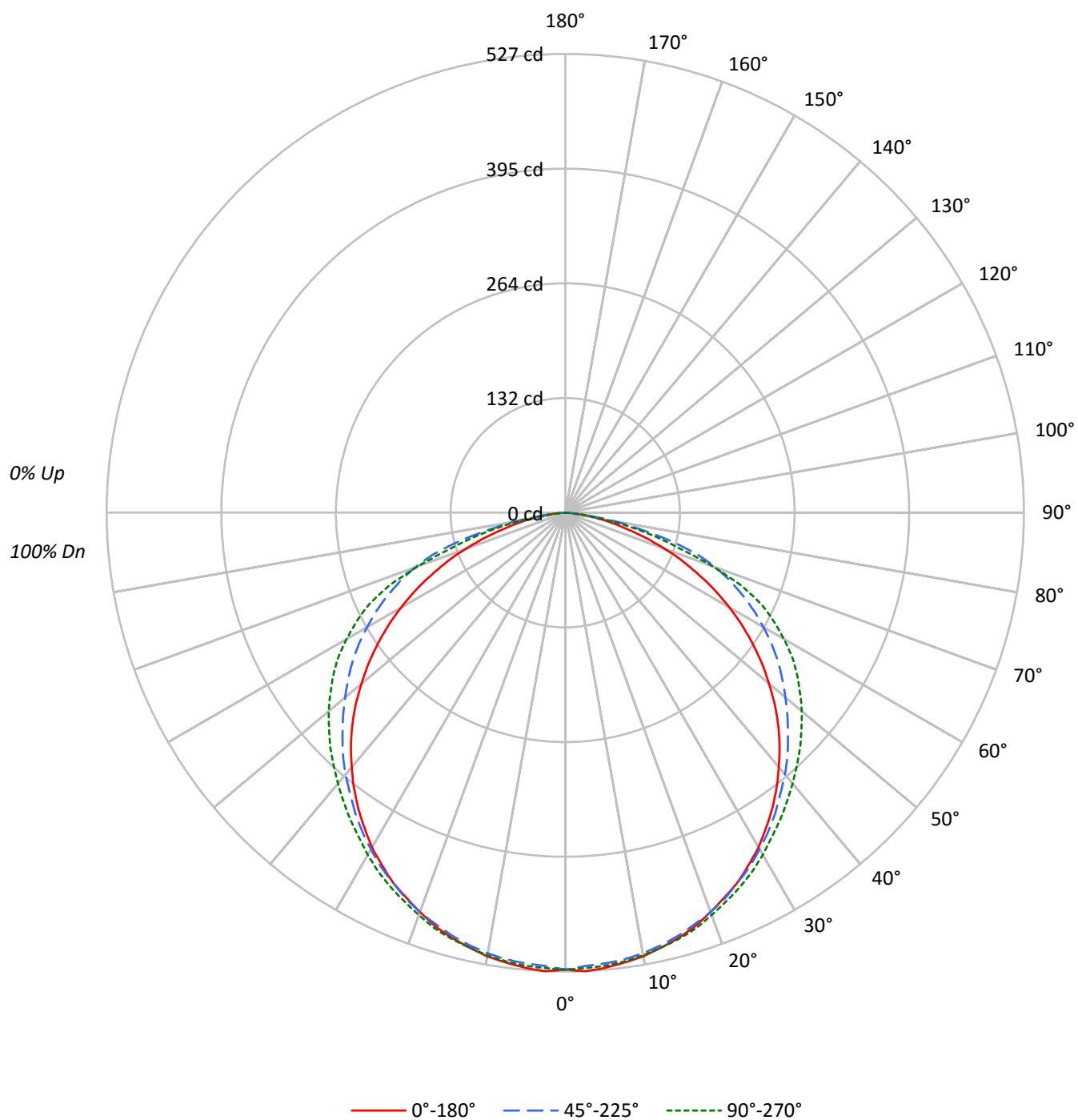
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1412	1412	1412
5°	1418	1404	1411
10°	1414	1404	1411
15°	1408	1401	1411
20°	1398	1398	1408
25°	1391	1391	1409
30°	1380	1387	1410
35°	1362	1382	1415
40°	1341	1379	1427
45°	1318	1378	1453
50°	1280	1383	1485
55°	1234	1400	1527
60°	1172	1415	1560
65°	1082	1433	1581
70°	962	1444	1415
75°	776	1298	1132
80°	606	910	739
85°	417	266	188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	3.2
10°-20°	142.5	9.1
20°-30°	217.0	13.8
30°-40°	264.3	16.9
40°-50°	280.4	17.9
50°-60°	264.7	16.9
60°-70°	213.7	13.6
70°-80°	115.9	7.4
80°-90°	18.8	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°	409.2	26.1
0°-40°	673.5	43.0
0°-60°	1218.6	77.8
0°-90°	1567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	525	525	525	525	525	
5°	525	524	520	524	522	50
15°	505	504	503	506	506	143
25°	469	467	469	473	475	216
35°	415	417	421	429	431	259
45°	346	351	362	376	382	267
55°	263	274	298	318	325	235
65°	170	191	225	244	248	168
75°	75	109	125	113	109	82
85°	14	15	9	7	6	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	524.8	524.8	524.8	524.8	524.8
2.5°	527.3	524.8	521.2	524.8	523.6
5°	524.8	523.6	519.9	523.6	522.4
7.5°	521.2	521.2	517.5	519.9	519.9
10°	517.5	516.3	513.8	517.5	516.3
12.5°	511.4	510.1	508.9	512.6	511.4
15°	505.3	504.0	502.8	506.5	506.5
17.5°	497.9	496.7	495.5	500.4	500.4
20°	488.1	488.1	488.1	493.0	491.8
22.5°	478.3	478.3	479.6	484.5	483.2
25°	468.6	467.3	468.6	473.4	474.7
27.5°	456.3	457.5	458.8	463.7	464.9
30°	444.1	445.3	446.5	452.6	453.9
32.5°	429.4	431.9	434.3	441.6	441.6
35°	414.7	417.2	420.8	429.4	430.6
37.5°	398.8	401.3	406.2	415.9	418.4
40°	381.7	385.4	392.7	402.5	406.2
42.5°	364.6	369.5	378.0	389.0	393.9
45°	346.2	351.1	362.1	375.6	381.7
47.5°	326.6	332.8	346.2	363.3	368.2
50°	305.8	314.4	330.3	348.7	354.8
52.5°	285.0	294.8	314.4	334.0	340.1
55°	263.0	274.0	298.5	318.1	325.4
57.5°	241.0	253.2	281.4	302.2	309.5
60°	217.8	232.4	263.0	283.8	289.9
62.5°	194.5	211.6	244.7	265.5	270.4
65°	170.0	190.8	225.1	243.5	248.3
67.5°	146.8	171.3	205.5	219.0	219.0
70°	122.3	149.3	183.5	187.2	179.8
72.5°	97.9	128.5	159.0	145.6	139.5
75°	74.6	108.9	124.8	112.6	108.9
77.5°	56.3	88.1	88.1	80.7	78.3
80°	39.1	67.3	58.7	51.4	47.7
82.5°	25.7	37.9	30.6	24.5	20.8
85°	13.5	14.7	8.6	7.3	6.1
87.5°	4.9	2.4	1.2	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)