

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: P307492

Luminaire Tested: **14FCZ2-44-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: P307492
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: 14FCZ2-44-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: 2778.0 lumens
Efficiency: N/A
Efficacy: 69.4 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

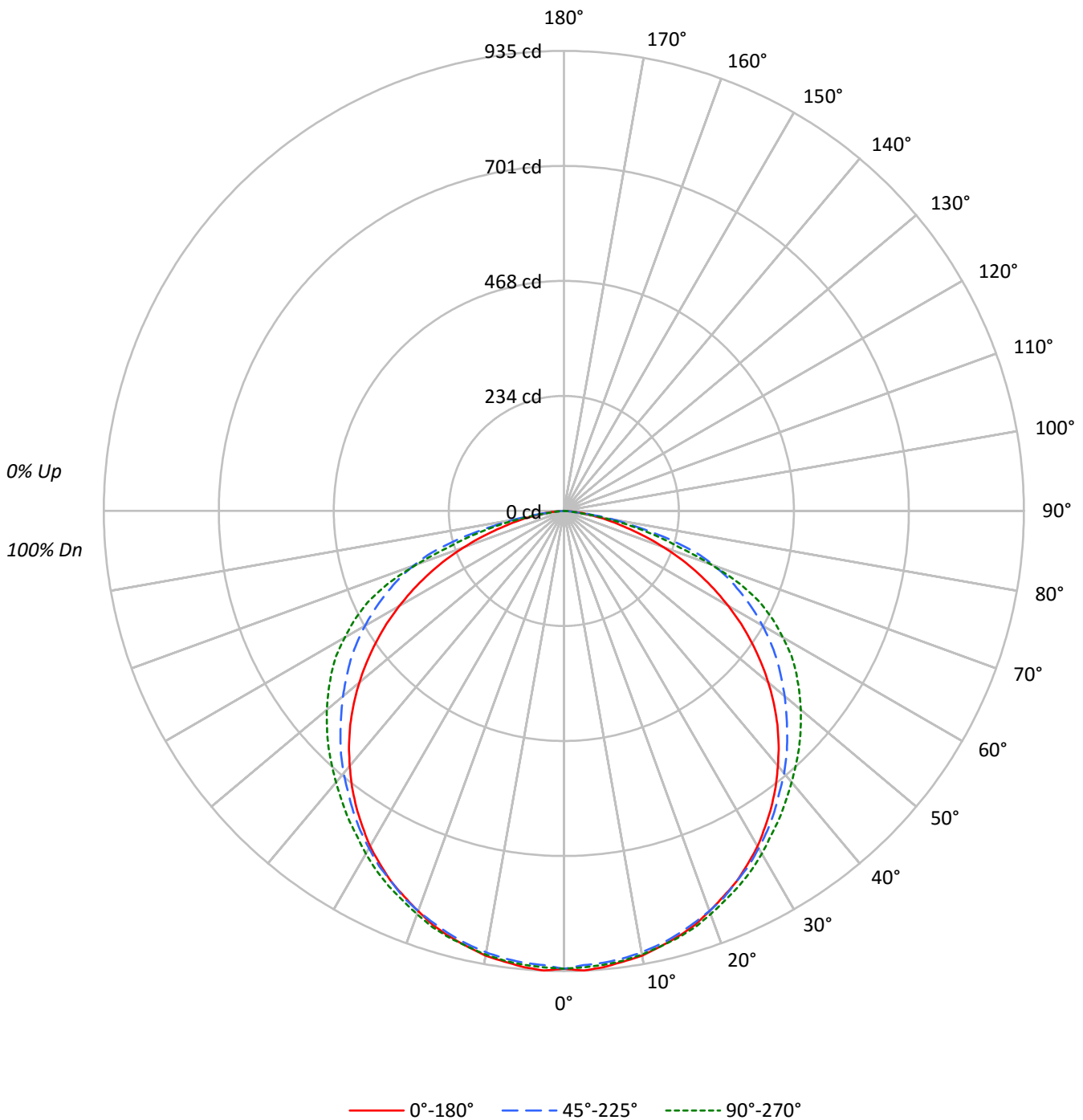
Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2504	2504	2504
5°	2513	2490	2502
10°	2507	2489	2501
15°	2495	2483	2501
20°	2478	2478	2497
25°	2466	2466	2499
30°	2446	2460	2500
35°	2415	2451	2508
40°	2377	2446	2529
45°	2336	2443	2575
50°	2270	2452	2633
55°	2188	2483	2707
60°	2077	2510	2766
65°	1920	2541	2804
70°	1707	2559	2508
75°	1376	2300	2007
80°	1075	1613	1311
85°	738	469	333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	3.2
10°-20°	252.7	9.1
20°-30°	384.7	13.8
30°-40°	468.6	16.9
40°-50°	497.2	17.9
50°-60°	469.2	16.9
60°-70°	378.8	13.6
70°-80°	205.5	7.4
80°-90°	33.2	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°	725.5	26.1
0°-40°	1194.1	43.0
0°-60°	2160.4	77.8
0°-90°	2778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	930	928	922	928	926	88
15°	896	894	891	898	898	253
25°	831	828	831	839	842	382
35°	735	740	746	761	763	460
45°	614	622	642	666	677	473
55°	466	486	529	564	577	417
65°	302	338	399	432	440	299
75°	132	193	221	200	193	145
85°	24	26	15	13	11	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	930.4	930.4	930.4	930.4	930.4
2.5°	934.8	930.4	923.9	930.4	928.3
5°	930.4	928.3	921.7	928.3	926.1
7.5°	923.9	923.9	917.4	921.7	921.7
10°	917.4	915.2	910.9	917.4	915.2
12.5°	906.6	904.4	902.2	908.7	906.6
15°	895.7	893.6	891.4	897.9	897.9
17.5°	882.7	880.5	878.4	887.0	887.0
20°	865.4	865.4	865.4	874.0	871.9
22.5°	848.0	848.0	850.2	858.9	856.7
25°	830.7	828.5	830.7	839.3	841.5
27.5°	809.0	811.1	813.3	822.0	824.2
30°	787.3	789.4	791.6	802.5	804.6
32.5°	761.3	765.6	769.9	782.9	782.9
35°	735.2	739.6	746.1	761.3	763.4
37.5°	707.0	711.4	720.0	737.4	741.7
40°	676.7	683.2	696.2	713.5	720.0
42.5°	646.3	655.0	670.2	689.7	698.4
45°	613.8	622.5	642.0	665.8	676.7
47.5°	579.1	589.9	613.8	644.1	652.8
50°	542.2	557.4	585.6	618.1	629.0
52.5°	505.3	522.7	557.4	592.1	602.9
55°	466.3	485.8	529.2	563.9	576.9
57.5°	427.3	448.9	498.8	535.7	548.7
60°	386.0	412.1	466.3	503.2	514.0
62.5°	344.8	375.2	433.8	470.6	479.3
65°	301.5	338.3	399.1	431.6	440.3
67.5°	260.3	303.6	364.4	388.2	388.2
70°	216.9	264.6	325.3	331.8	318.8
72.5°	173.5	227.7	281.9	258.1	247.2
75°	132.3	193.0	221.2	199.5	193.0
77.5°	99.8	156.2	156.2	143.1	138.8
80°	69.4	119.3	104.1	91.1	84.6
82.5°	45.5	67.2	54.2	43.4	36.9
85°	23.9	26.0	15.2	13.0	10.8
87.5°	8.7	4.3	2.2	4.3	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)