

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: P307519

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CP250-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: P307519
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-CP250-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.250" POLYCARB 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: 2587.0 lumens
Efficiency: N/A
Efficacy: 64.7 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

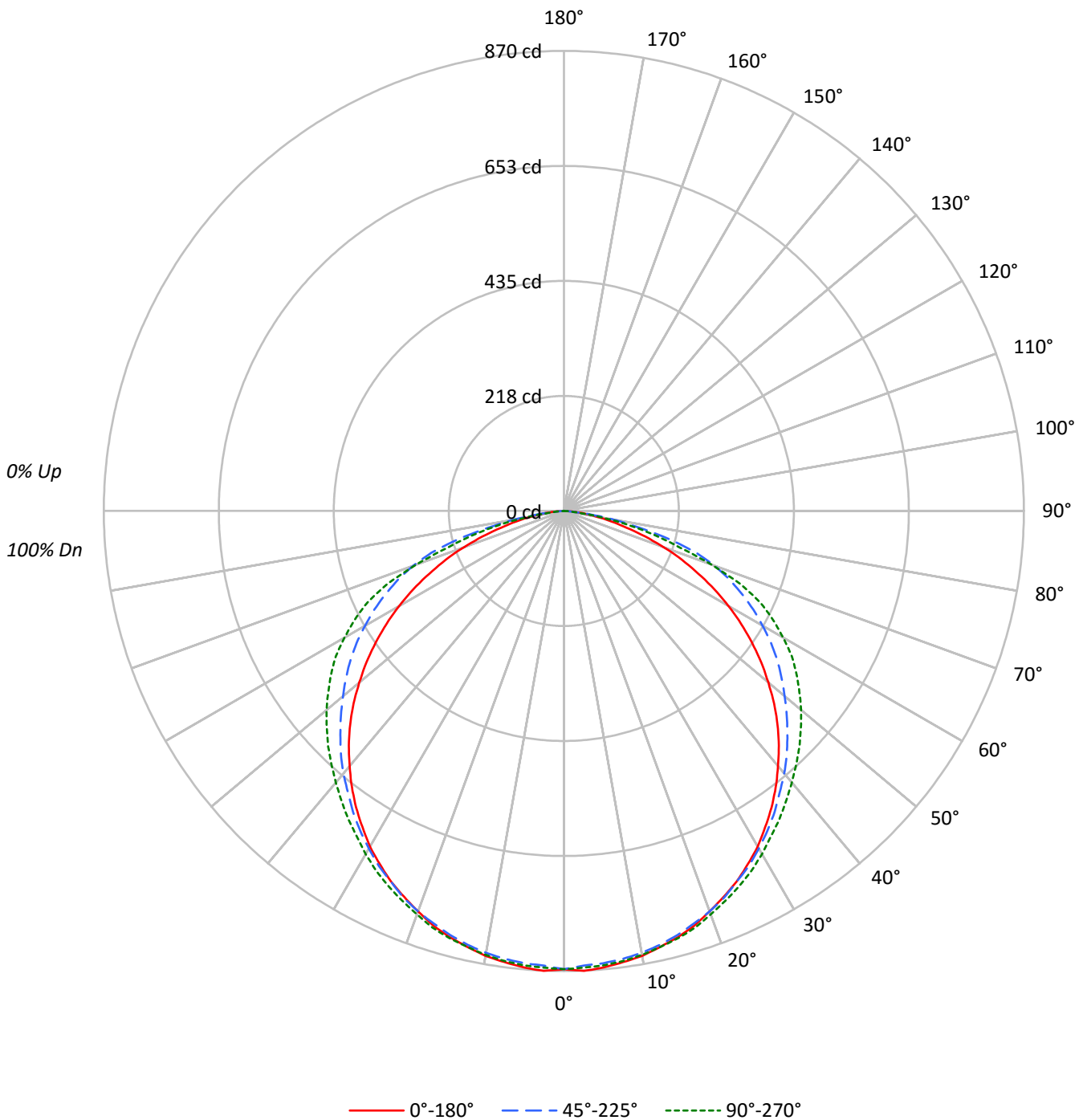
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2332	2332	2332
5°	2341	2319	2330
10°	2334	2318	2329
15°	2324	2313	2330
20°	2308	2308	2325
25°	2297	2297	2327
30°	2278	2291	2328
35°	2249	2282	2335
40°	2213	2277	2355
45°	2175	2275	2398
50°	2114	2283	2452
55°	2037	2312	2520
60°	1935	2337	2576
65°	1787	2366	2611
70°	1589	2384	2336
75°	1281	2142	1869
80°	1001	1502	1221
85°	685	435	312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.2
10°-20°	235.3	9.1
20°-30°	358.3	13.8
30°-40°	436.4	16.9
40°-50°	463.0	17.9
50°-60°	436.9	16.9
60°-70°	352.8	13.6
70°-80°	191.4	7.4
80°-90°	31.0	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°	675.6	26.1
0°-40°	1112.0	43.0
0°-60°	2011.9	77.8
0°-90°	2587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	866	864	858	864	862	82
15°	834	832	830	836	836	235
25°	774	772	774	782	784	356
35°	685	689	695	709	711	428
45°	572	580	598	620	630	440
55°	434	452	493	525	537	388
65°	281	315	372	402	410	278
75°	123	180	206	186	180	135
85°	22	24	14	12	10	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.5	866.5	866.5	866.5	866.5
2.5°	870.5	866.5	860.4	866.5	864.4
5°	866.5	864.4	858.4	864.4	862.4
7.5°	860.4	860.4	854.3	858.4	858.4
10°	854.3	852.3	848.3	854.3	852.3
12.5°	844.2	842.2	840.2	846.3	844.2
15°	834.1	832.1	830.1	836.2	836.2
17.5°	822.0	820.0	818.0	826.1	826.1
20°	805.9	805.9	805.9	813.9	811.9
22.5°	789.7	789.7	791.7	799.8	797.8
25°	773.5	771.5	773.5	781.6	783.6
27.5°	753.3	755.4	757.4	765.5	767.5
30°	733.2	735.2	737.2	747.3	749.3
32.5°	708.9	713.0	717.0	729.1	729.1
35°	684.7	688.7	694.8	708.9	710.9
37.5°	658.4	662.5	670.5	686.7	690.7
40°	630.1	636.2	648.3	664.5	670.5
42.5°	601.9	610.0	624.1	642.3	650.3
45°	571.6	579.7	597.8	620.0	630.1
47.5°	539.3	549.4	571.6	599.9	607.9
50°	504.9	519.1	545.3	575.6	585.7
52.5°	470.6	486.7	519.1	551.4	561.5
55°	434.2	452.4	492.8	525.1	537.2
57.5°	397.9	418.1	464.5	498.9	511.0
60°	359.5	383.7	434.2	468.6	478.7
62.5°	321.1	349.4	403.9	438.3	446.4
65°	280.7	315.1	371.6	401.9	410.0
67.5°	242.4	282.8	339.3	361.5	361.5
70°	202.0	246.4	303.0	309.0	296.9
72.5°	161.6	212.1	262.6	240.3	230.2
75°	123.2	179.8	206.0	185.8	179.8
77.5°	92.9	145.4	145.4	133.3	129.3
80°	64.6	111.1	96.9	84.8	78.8
82.5°	42.4	62.6	50.5	40.4	34.3
85°	22.2	24.2	14.1	12.1	10.1
87.5°	8.1	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)