

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: P307348

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CA08-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: P307348
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-CA08-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" 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: 1879.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

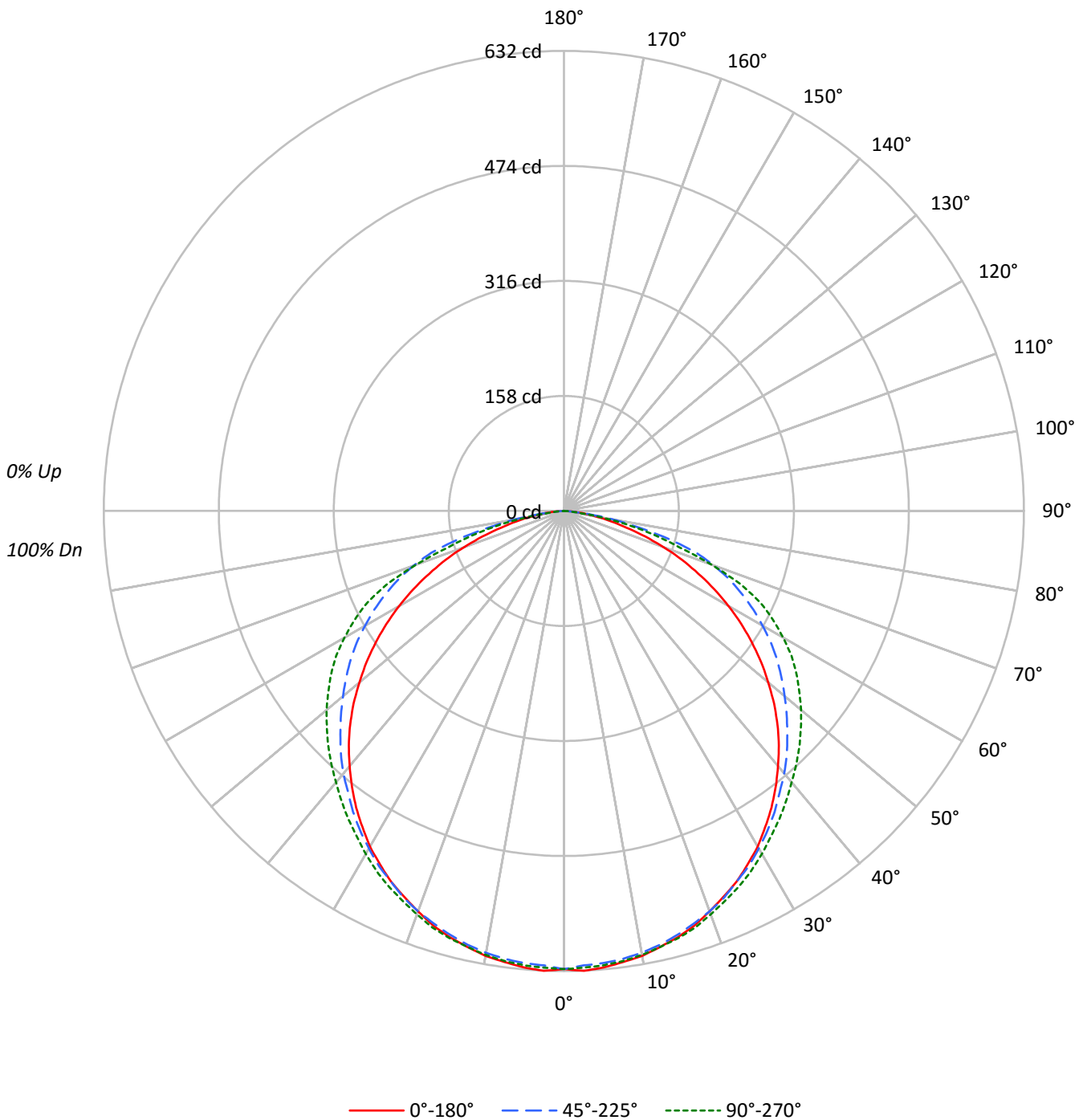
Input Watts (W): 24.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1693	1693	1693
5°	1700	1684	1692
10°	1696	1683	1692
15°	1688	1680	1692
20°	1676	1676	1689
25°	1668	1668	1690
30°	1655	1664	1691
35°	1634	1658	1696
40°	1608	1654	1711
45°	1580	1652	1742
50°	1535	1658	1781
55°	1480	1679	1831
60°	1405	1697	1871
65°	1298	1719	1896
70°	1154	1731	1696
75°	931	1555	1358
80°	727	1091	886
85°	497	318	225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.2
10°-20°	170.9	9.1
20°-30°	260.2	13.8
30°-40°	317.0	16.9
40°-50°	336.3	17.9
50°-60°	317.4	16.9
60°-70°	256.2	13.6
70°-80°	139.0	7.4
80°-90°	22.5	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°	490.7	26.1
0°-40°	807.6	43.0
0°-60°	1461.3	77.8
0°-90°	1879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	629	628	624	628	626	60
15°	606	604	603	607	607	171
25°	562	560	562	568	569	259
35°	497	500	505	515	516	311
45°	415	421	434	450	458	320
55°	315	329	358	381	390	282
65°	204	229	270	292	298	202
75°	90	131	150	135	131	98
85°	16	18	10	9	7	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.3	629.3	629.3	629.3	629.3
2.5°	632.3	629.3	624.9	629.3	627.9
5°	629.3	627.9	623.5	627.9	626.4
7.5°	624.9	624.9	620.5	623.5	623.5
10°	620.5	619.1	616.1	620.5	619.1
12.5°	613.2	611.7	610.3	614.7	613.2
15°	605.9	604.4	602.9	607.3	607.3
17.5°	597.1	595.6	594.1	600.0	600.0
20°	585.3	585.3	585.3	591.2	589.7
22.5°	573.6	573.6	575.0	580.9	579.4
25°	561.8	560.4	561.8	567.7	569.2
27.5°	547.2	548.6	550.1	556.0	557.4
30°	532.5	534.0	535.4	542.8	544.2
32.5°	514.9	517.8	520.8	529.6	529.6
35°	497.3	500.2	504.6	514.9	516.4
37.5°	478.2	481.2	487.0	498.8	501.7
40°	457.7	462.1	470.9	482.6	487.0
42.5°	437.2	443.0	453.3	466.5	472.4
45°	415.1	421.0	434.2	450.4	457.7
47.5°	391.7	399.0	415.1	435.7	441.6
50°	366.7	377.0	396.1	418.1	425.4
52.5°	341.8	353.5	377.0	400.5	407.8
55°	315.4	328.6	357.9	381.4	390.2
57.5°	289.0	303.7	337.4	362.3	371.1
60°	261.1	278.7	315.4	340.3	347.7
62.5°	233.2	253.8	293.4	318.3	324.2
65°	203.9	228.8	269.9	291.9	297.8
67.5°	176.0	205.4	246.4	262.6	262.6
70°	146.7	179.0	220.0	224.4	215.6
72.5°	117.4	154.0	190.7	174.6	167.2
75°	89.5	130.6	149.6	135.0	130.6
77.5°	67.5	105.6	105.6	96.8	93.9
80°	46.9	80.7	70.4	61.6	57.2
82.5°	30.8	45.5	36.7	29.3	24.9
85°	16.1	17.6	10.3	8.8	7.3
87.5°	5.9	2.9	1.5	2.9	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)