

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: P307346

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CA08-W2A-U-5500K**

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: P307346
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-5500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC SHEET
Light Source: (168) 5500K 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: 1870.0 lumens
Efficiency: N/A
Efficacy: 76.3 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

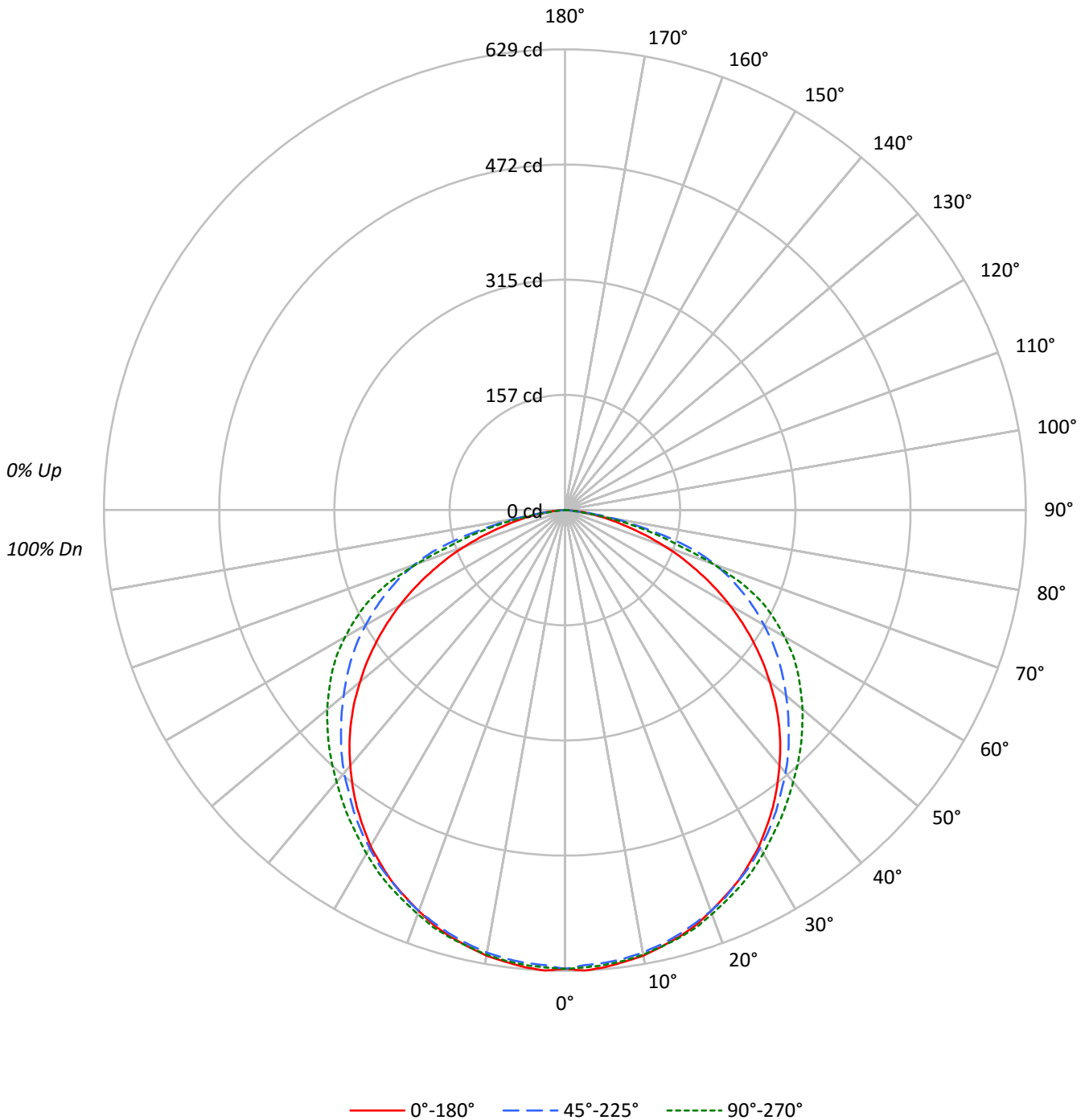
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	1685	1685	1685
5°	1692	1676	1684
10°	1688	1676	1683
15°	1680	1672	1684
20°	1668	1668	1681
25°	1660	1660	1682
30°	1647	1656	1683
35°	1626	1650	1688
40°	1600	1646	1703
45°	1572	1644	1733
50°	1528	1650	1773
55°	1473	1671	1822
60°	1399	1689	1862
65°	1292	1710	1887
70°	1149	1723	1688
75°	926	1548	1351
80°	724	1086	882
85°	497	315	225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	3.2
10°-20°	170.1	9.1
20°-30°	259.0	13.8
30°-40°	315.4	16.9
40°-50°	334.7	17.9
50°-60°	315.8	16.9
60°-70°	255.0	13.6
70°-80°	138.3	7.4
80°-90°	22.4	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°	488.3	26.1
0°-40°	803.8	43.0
0°-60°	1454.3	77.8
0°-90°	1870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	626	625	620	625	623	59
15°	603	602	600	604	604	170
25°	559	558	559	565	566	257
35°	495	498	502	512	514	309
45°	413	419	432	448	456	318
55°	314	327	356	380	388	280
65°	203	228	269	290	296	201
75°	89	130	149	134	130	97
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°	626.3	626.3	626.3	626.3	626.3
2.5°	629.2	626.3	621.9	626.3	624.9
5°	626.3	624.9	620.5	624.9	623.4
7.5°	621.9	621.9	617.6	620.5	620.5
10°	617.6	616.1	613.2	617.6	616.1
12.5°	610.3	608.8	607.3	611.7	610.3
15°	603.0	601.5	600.0	604.4	604.4
17.5°	594.2	592.7	591.3	597.1	597.1
20°	582.5	582.5	582.5	588.4	586.9
22.5°	570.8	570.8	572.3	578.1	576.7
25°	559.2	557.7	559.2	565.0	566.5
27.5°	544.6	546.0	547.5	553.3	554.8
30°	530.0	531.4	532.9	540.2	541.6
32.5°	512.4	515.4	518.3	527.0	527.0
35°	494.9	497.8	502.2	512.4	513.9
37.5°	475.9	478.9	484.7	496.4	499.3
40°	455.5	459.9	468.6	480.3	484.7
42.5°	435.1	440.9	451.1	464.3	470.1
45°	413.2	419.0	432.1	448.2	455.5
47.5°	389.8	397.1	413.2	433.6	439.4
50°	365.0	375.2	394.2	416.1	423.4
52.5°	340.2	351.8	375.2	398.6	405.9
55°	313.9	327.0	356.2	379.6	388.3
57.5°	287.6	302.2	335.8	360.6	369.4
60°	259.9	277.4	313.9	338.7	346.0
62.5°	232.1	252.6	292.0	316.8	322.6
65°	202.9	227.7	268.6	290.5	296.4
67.5°	175.2	204.4	245.3	261.3	261.3
70°	146.0	178.1	219.0	223.4	214.6
72.5°	116.8	153.3	189.8	173.7	166.4
75°	89.1	129.9	148.9	134.3	129.9
77.5°	67.2	105.1	105.1	96.4	93.4
80°	46.7	80.3	70.1	61.3	56.9
82.5°	30.7	45.3	36.5	29.2	24.8
85°	16.1	17.5	10.2	8.8	7.3
87.5°	5.8	2.9	1.5	2.9	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)