

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: P307357

Luminaire Tested: **14FCZ2-29-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: P307357
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-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: 1873.0 lumens
Efficiency: N/A
Efficacy: 75.2 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

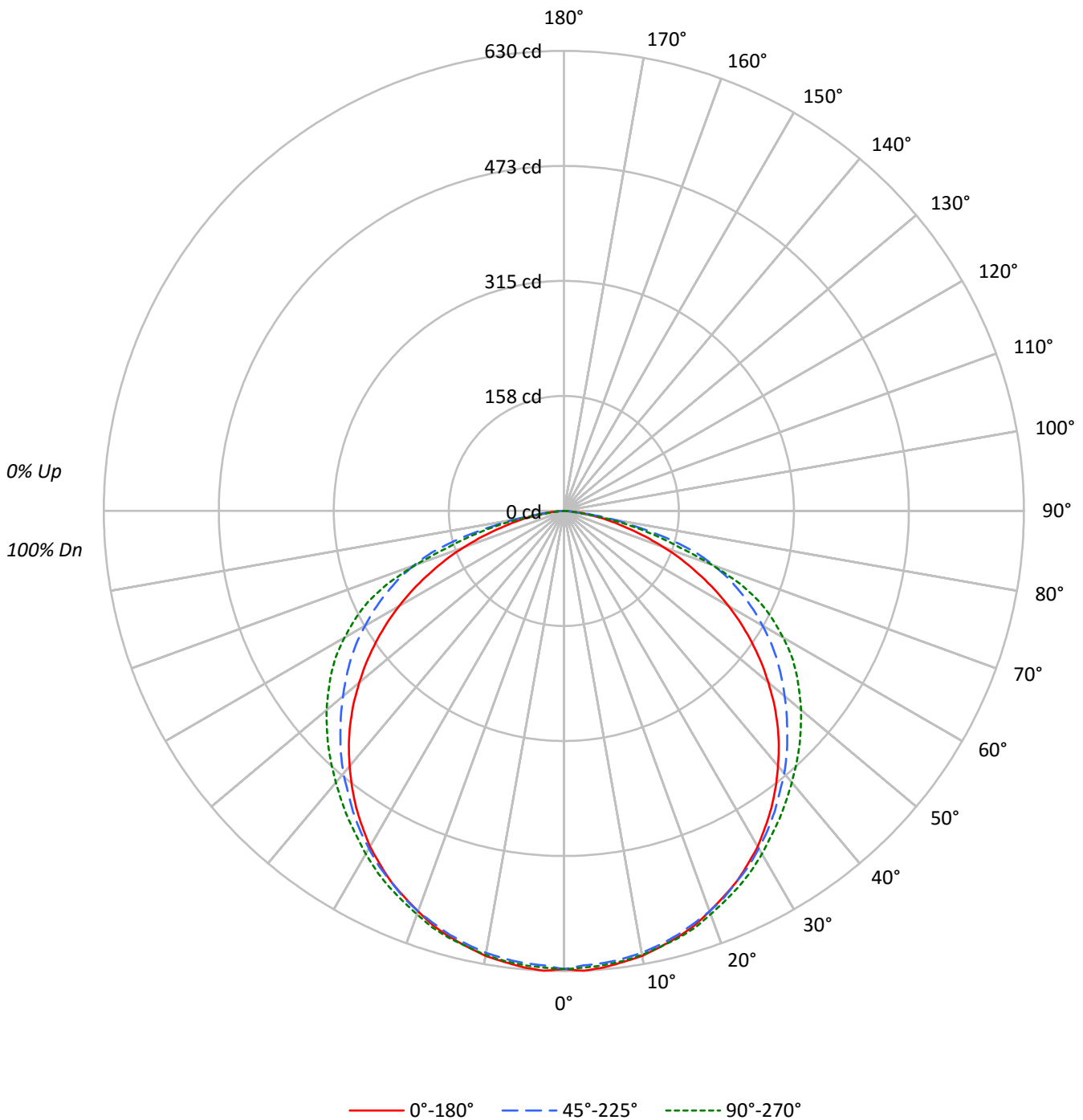
Input Watts (W): 24.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1688	1688	1688
5°	1694	1679	1687
10°	1690	1678	1686
15°	1682	1674	1687
20°	1671	1671	1683
25°	1663	1663	1685
30°	1649	1658	1686
35°	1628	1652	1691
40°	1603	1649	1705
45°	1575	1647	1736
50°	1531	1653	1775
55°	1475	1674	1825
60°	1401	1692	1865
65°	1294	1713	1890
70°	1150	1725	1692
75°	927	1551	1353
80°	725	1088	883
85°	497	315	225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	3.2
10°-20°	170.4	9.1
20°-30°	259.4	13.8
30°-40°	315.9	16.9
40°-50°	335.2	17.9
50°-60°	316.3	16.9
60°-70°	255.4	13.6
70°-80°	138.6	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°	489.1	26.1
0°-40°	805.1	43.0
0°-60°	1456.6	77.8
0°-90°	1873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1873.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	627	626	622	626	624	60
15°	604	602	601	605	605	170
25°	560	559	560	566	567	258
35°	496	499	503	513	515	310
45°	414	420	433	449	456	319
55°	314	328	357	380	389	281
65°	203	228	269	291	297	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°	627.3	627.3	627.3	627.3	627.3
2.5°	630.2	627.3	622.9	627.3	625.9
5°	627.3	625.9	621.5	625.9	624.4
7.5°	622.9	622.9	618.5	621.5	621.5
10°	618.5	617.1	614.2	618.5	617.1
12.5°	611.2	609.8	608.3	612.7	611.2
15°	603.9	602.5	601.0	605.4	605.4
17.5°	595.1	593.7	592.2	598.1	598.1
20°	583.4	583.4	583.4	589.3	587.8
22.5°	571.7	571.7	573.2	579.1	577.6
25°	560.1	558.6	560.1	565.9	567.4
27.5°	545.4	546.9	548.4	554.2	555.7
30°	530.8	532.3	533.7	541.0	542.5
32.5°	513.3	516.2	519.1	527.9	527.9
35°	495.7	498.6	503.0	513.3	514.7
37.5°	476.7	479.6	485.5	497.2	500.1
40°	456.2	460.6	469.4	481.1	485.5
42.5°	435.8	441.6	451.8	465.0	470.9
45°	413.8	419.7	432.8	448.9	456.2
47.5°	390.4	397.7	413.8	434.3	440.1
50°	365.6	375.8	394.8	416.7	424.1
52.5°	340.7	352.4	375.8	399.2	406.5
55°	314.4	327.5	356.8	380.2	389.0
57.5°	288.1	302.7	336.3	361.2	370.0
60°	260.3	277.8	314.4	339.2	346.6
62.5°	232.5	253.0	292.5	317.3	323.2
65°	203.3	228.1	269.1	291.0	296.8
67.5°	175.5	204.7	245.7	261.7	261.7
70°	146.2	178.4	219.3	223.7	215.0
72.5°	117.0	153.5	190.1	174.0	166.7
75°	89.2	130.1	149.2	134.5	130.1
77.5°	67.3	105.3	105.3	96.5	93.6
80°	46.8	80.4	70.2	61.4	57.0
82.5°	30.7	45.3	36.6	29.2	24.9
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)