

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: P307355

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CA125-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: P307355
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-5500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" 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: 1863.0 lumens
Efficiency: N/A
Efficacy: 76.0 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

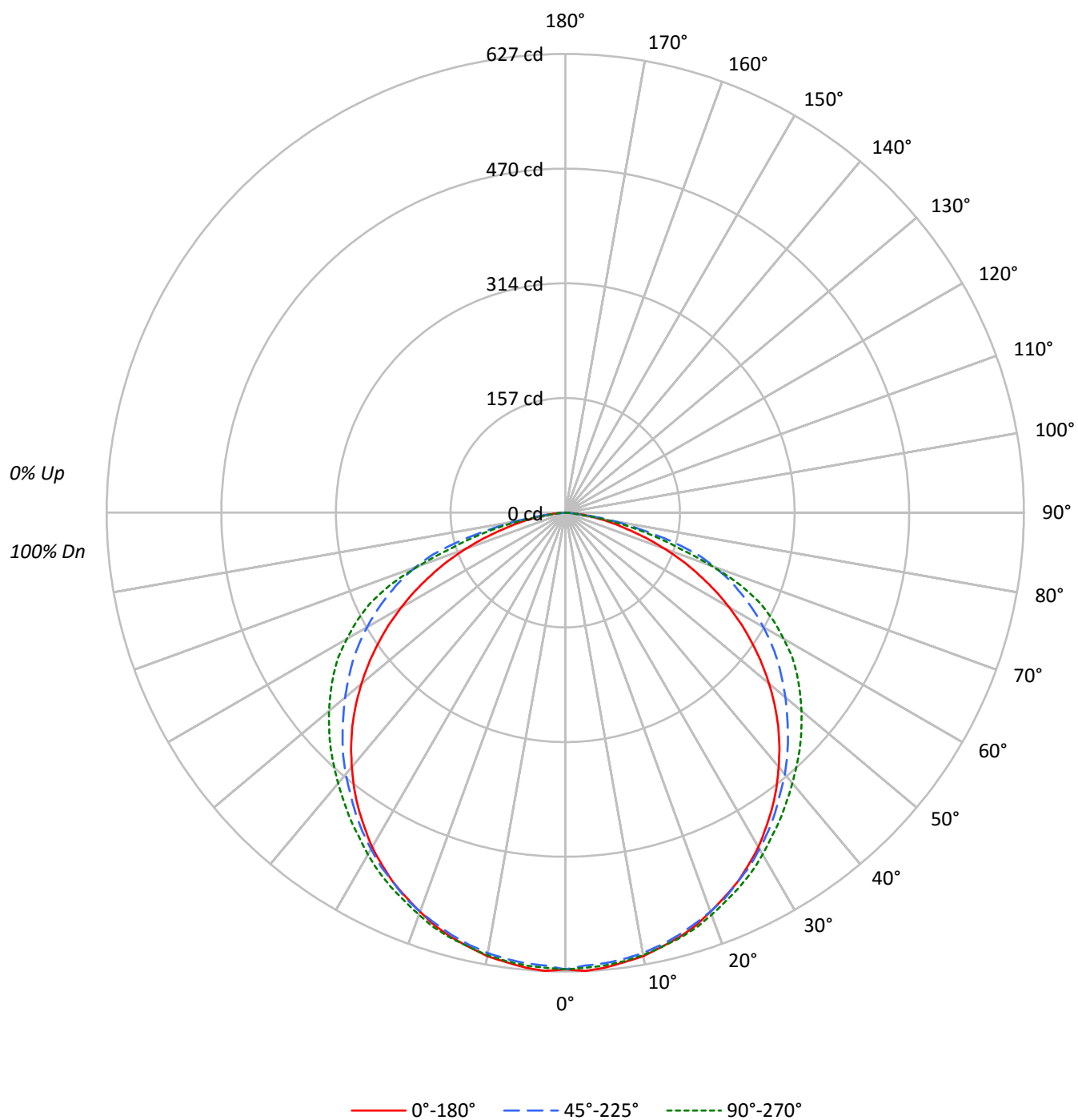
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1679	1679	1679
5°	1686	1670	1678
10°	1681	1669	1677
15°	1673	1665	1677
20°	1662	1662	1674
25°	1654	1654	1676
30°	1641	1650	1677
35°	1620	1644	1682
40°	1594	1640	1696
45°	1566	1638	1727
50°	1522	1644	1766
55°	1467	1665	1815
60°	1393	1683	1855
65°	1287	1704	1880
70°	1144	1717	1682
75°	922	1543	1345
80°	721	1082	879
85°	494	315	225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	3.2
10°-20°	169.4	9.1
20°-30°	258.0	13.8
30°-40°	314.3	16.9
40°-50°	333.4	17.9
50°-60°	314.7	16.9
60°-70°	254.0	13.6
70°-80°	137.8	7.4
80°-90°	22.3	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°	486.5	26.1
0°-40°	800.8	43.0
0°-60°	1448.8	77.8
0°-90°	1863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	624	624	624	624	624	
5°	624	622	618	622	621	59
15°	601	599	598	602	602	169
25°	557	556	557	563	564	256
35°	493	496	500	510	512	308
45°	412	417	430	446	454	317
55°	313	326	355	378	387	279
65°	202	227	268	289	295	200
75°	89	129	148	134	129	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°	624.0	624.0	624.0	624.0	624.0
2.5°	626.9	624.0	619.6	624.0	622.5
5°	624.0	622.5	618.1	622.5	621.1
7.5°	619.6	619.6	615.2	618.1	618.1
10°	615.2	613.8	610.9	615.2	613.8
12.5°	608.0	606.5	605.1	609.4	608.0
15°	600.7	599.2	597.8	602.1	602.1
17.5°	592.0	590.5	589.1	594.9	594.9
20°	580.3	580.3	580.3	586.2	584.7
22.5°	568.7	568.7	570.2	576.0	574.5
25°	557.1	555.6	557.1	562.9	564.3
27.5°	542.5	544.0	545.4	551.2	552.7
30°	528.0	529.4	530.9	538.2	539.6
32.5°	510.5	513.4	516.3	525.1	525.1
35°	493.1	496.0	500.3	510.5	512.0
37.5°	474.2	477.1	482.9	494.5	497.4
40°	453.8	458.2	466.9	478.5	482.9
42.5°	433.4	439.2	449.4	462.5	468.3
45°	411.6	417.4	430.5	446.5	453.8
47.5°	388.3	395.6	411.6	432.0	437.8
50°	363.6	373.8	392.7	414.5	421.8
52.5°	338.9	350.5	373.8	397.1	404.3
55°	312.7	325.8	354.9	378.2	386.9
57.5°	286.5	301.1	334.5	359.3	368.0
60°	258.9	276.3	312.7	337.4	344.7
62.5°	231.3	251.6	290.9	315.6	321.4
65°	202.2	226.9	267.6	289.4	295.3
67.5°	174.5	203.6	244.4	260.3	260.3
70°	145.4	177.4	218.2	222.5	213.8
72.5°	116.4	152.7	189.1	173.1	165.8
75°	88.7	129.4	148.4	133.8	129.4
77.5°	66.9	104.7	104.7	96.0	93.1
80°	46.5	80.0	69.8	61.1	56.7
82.5°	30.5	45.1	36.4	29.1	24.7
85°	16.0	17.5	10.2	8.7	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)