

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: P307042

Luminaire Tested: **14FCZ2-25-UNV-L82765-HRP-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: P307042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-UNV-L82765-HRP-CA125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 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: 1852.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

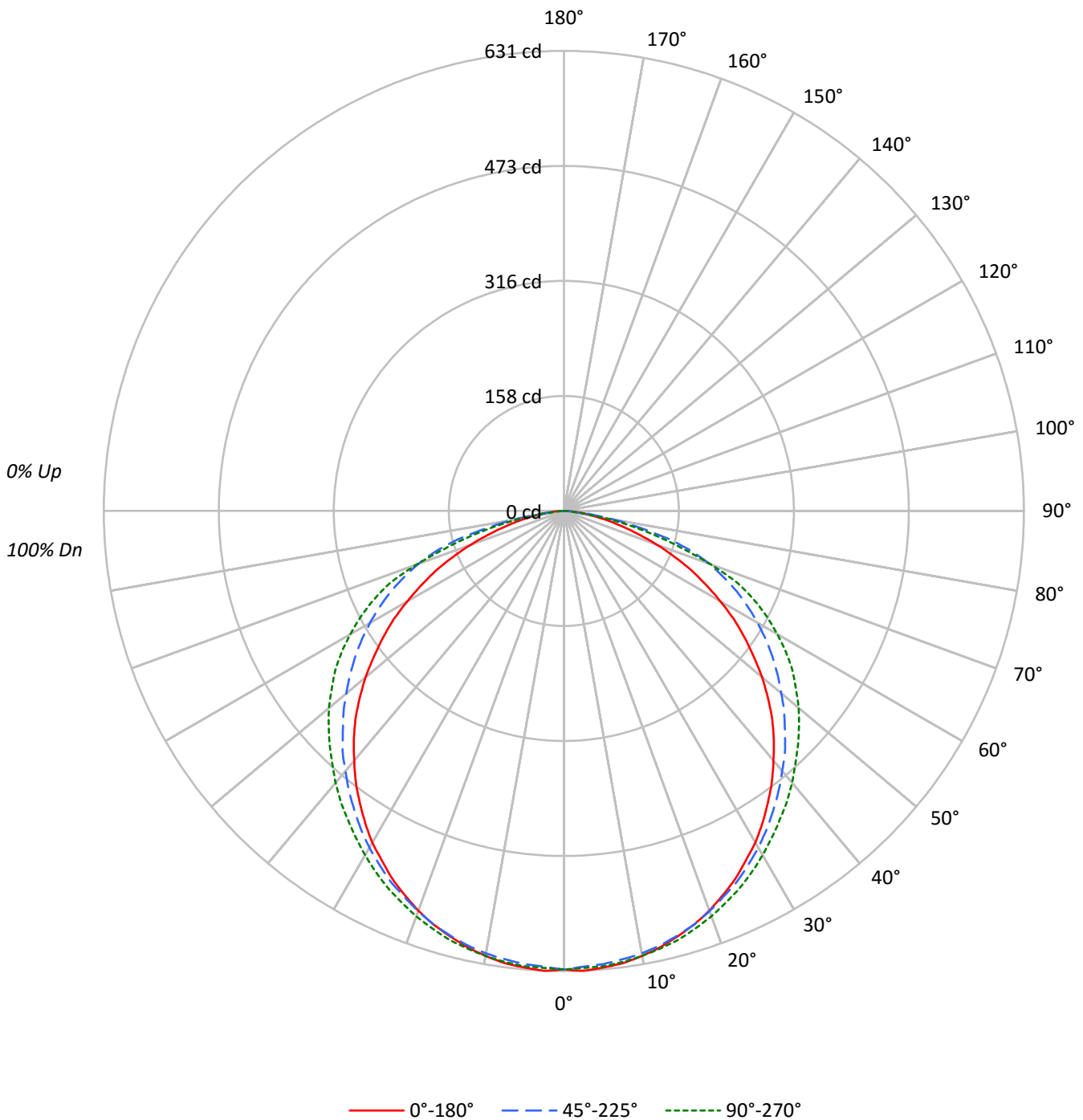
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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CATALOG NUMBER: 14FC22-25-UNV-L82765-HRP-CA125-W2A-U-6500K

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	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1692	1692	1692
5°	1697	1685	1693
10°	1693	1683	1693
15°	1682	1679	1696
20°	1671	1673	1694
25°	1653	1667	1695
30°	1632	1657	1694
35°	1603	1645	1697
40°	1571	1637	1710
45°	1538	1631	1729
50°	1485	1631	1760
55°	1421	1639	1798
60°	1335	1652	1821
65°	1231	1669	1832
70°	1072	1673	1686
75°	884	1556	1362
80°	694	1119	911
85°	540	432	216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	3.2
10°-20°	170.9	9.2
20°-30°	259.5	14.0
30°-40°	314.4	17.0
40°-50°	331.3	17.9
50°-60°	309.3	16.7
60°-70°	247.2	13.3
70°-80°	136.0	7.3
80°-90°	24.0	1.3
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°	489.9	26.5
0°-40°	804.2	43.4
0°-60°	1444.8	78.0
0°-90°	1852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	628	627	624	628	627	60
15°	604	604	603	609	609	170
25°	557	558	561	570	571	256
35°	488	493	501	514	517	305
45°	404	412	429	448	454	311
55°	303	318	349	374	383	270
65°	193	218	262	284	288	190
75°	85	122	150	134	131	92
85°	18	22	14	9	7	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	628.9	628.9	628.9	628.9	628.9
2.5°	631.3	629.5	625.5	628.9	627.2
5°	628.4	626.6	623.7	627.8	626.6
7.5°	625.5	623.1	620.2	624.9	623.7
10°	619.6	617.9	616.1	620.2	619.6
12.5°	612.6	612.1	610.3	615.0	614.4
15°	603.9	603.9	602.7	608.6	608.6
17.5°	594.6	594.0	594.6	601.0	600.4
20°	583.5	583.5	584.1	591.7	591.7
22.5°	570.1	570.7	572.5	581.8	581.2
25°	556.7	557.9	561.4	569.5	570.7
27.5°	540.4	543.3	547.4	557.3	558.5
30°	525.3	527.0	533.4	542.8	545.1
32.5°	507.2	510.7	517.7	528.2	531.1
35°	488.0	492.7	500.8	513.6	516.6
37.5°	468.8	472.9	483.9	497.3	502.6
40°	447.3	454.2	465.9	481.0	486.9
42.5°	426.3	433.3	449.0	464.7	470.0
45°	404.2	411.7	428.6	447.8	454.2
47.5°	379.7	388.4	410.0	430.4	437.4
50°	354.7	365.7	389.6	412.3	420.5
52.5°	328.5	342.4	369.8	393.7	401.2
55°	302.8	318.0	349.4	373.9	383.2
57.5°	276.6	292.9	328.5	356.4	361.6
60°	248.1	267.9	306.9	331.4	338.4
62.5°	220.1	242.8	284.8	308.1	313.9
65°	193.3	217.8	262.1	283.6	287.7
67.5°	164.2	193.3	237.0	256.8	258.0
70°	136.3	170.0	212.6	221.9	214.3
72.5°	108.9	145.0	184.0	176.5	170.0
75°	85.0	121.7	149.7	134.5	131.0
77.5°	62.9	99.6	107.2	99.0	92.6
80°	44.8	78.6	72.2	61.7	58.8
82.5°	30.9	49.5	39.6	30.9	26.8
85°	17.5	22.1	14.0	8.7	7.0
87.5°	7.6	5.2	2.9	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)