

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: P307036

Luminaire Tested: **14FCZ2-25-UNV-L82765-HRP-CA125-W2A-U-3500K**

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: P307036
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-3500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 3500K 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: 1731.0 lumens
Efficiency: N/A
Efficacy: 87.9 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

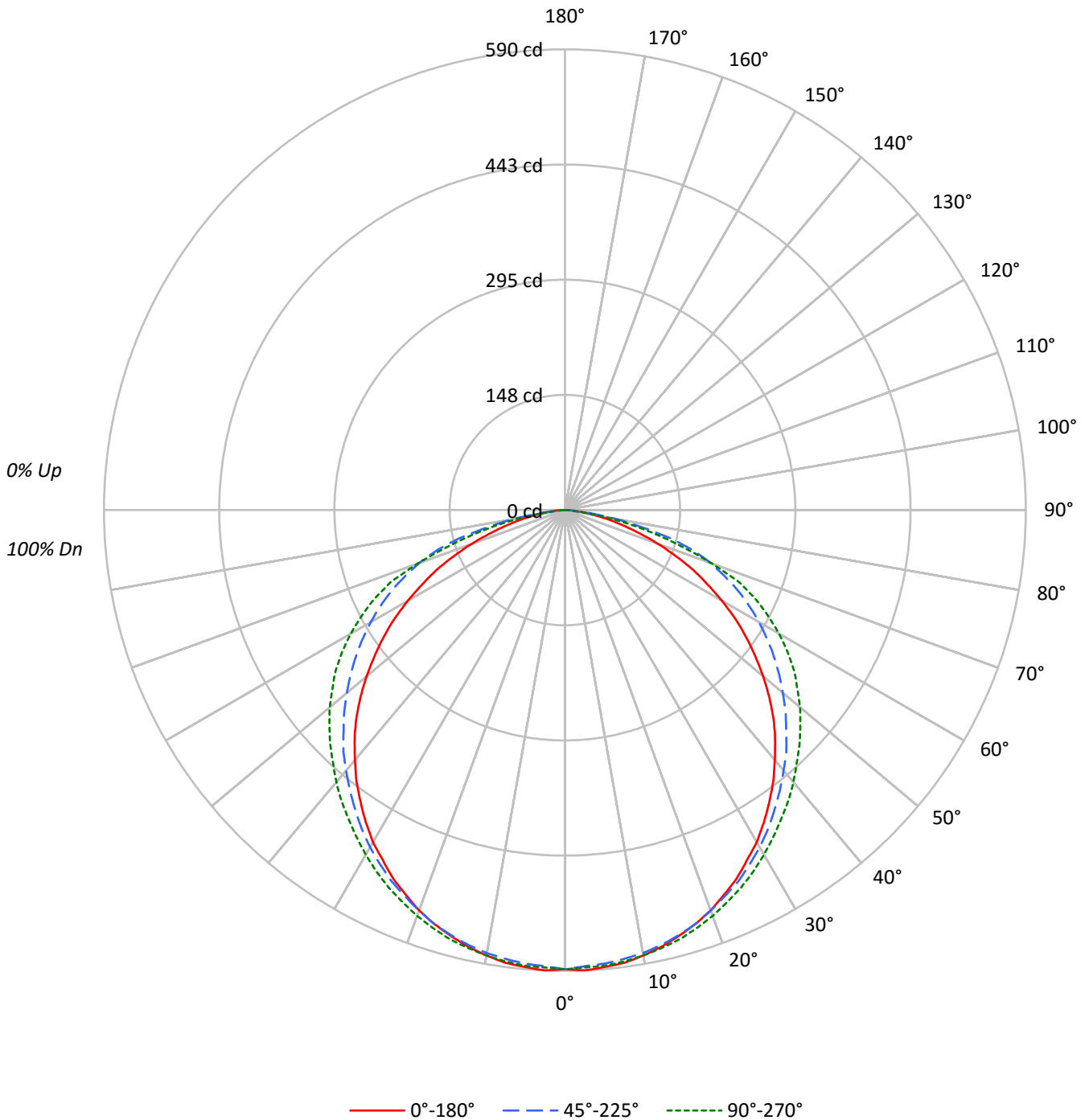
Input Watts (W): 19.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1582	1582	1582
5°	1586	1575	1582
10°	1582	1574	1582
15°	1573	1570	1585
20°	1562	1563	1584
25°	1545	1558	1584
30°	1526	1549	1583
35°	1498	1538	1586
40°	1468	1529	1598
45°	1438	1525	1616
50°	1388	1524	1645
55°	1328	1532	1681
60°	1248	1544	1702
65°	1151	1559	1712
70°	1002	1563	1576
75°	827	1455	1274
80°	649	1046	852
85°	503	404	201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.2
10°-20°	159.7	9.2
20°-30°	242.5	14.0
30°-40°	293.8	17.0
40°-50°	309.6	17.9
50°-60°	289.1	16.7
60°-70°	231.0	13.3
70°-80°	127.1	7.3
80°-90°	22.4	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°	457.9	26.5
0°-40°	751.7	43.4
0°-60°	1350.4	78.0
0°-90°	1731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	587	586	583	587	586	56
15°	564	564	563	569	569	159
25°	520	522	525	532	533	240
35°	456	460	468	480	483	285
45°	378	385	401	419	425	291
55°	283	297	327	349	358	253
65°	181	204	245	265	269	178
75°	80	114	140	126	122	86
85°	16	21	13	8	6	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	587.9	587.9	587.9	587.9	587.9
2.5°	590.0	588.4	584.6	587.9	586.2
5°	587.3	585.7	583.0	586.8	585.7
7.5°	584.6	582.4	579.7	584.0	583.0
10°	579.1	577.5	575.9	579.7	579.1
12.5°	572.6	572.1	570.4	574.8	574.2
15°	564.5	564.5	563.4	568.8	568.8
17.5°	555.7	555.2	555.7	561.7	561.2
20°	545.4	545.4	545.9	553.0	553.0
22.5°	532.9	533.4	535.1	543.8	543.2
25°	520.4	521.5	524.7	532.3	533.4
27.5°	505.1	507.8	511.7	520.9	522.0
30°	491.0	492.6	498.6	507.3	509.5
32.5°	474.1	477.4	483.9	493.7	496.4
35°	456.1	460.5	468.1	480.1	482.8
37.5°	438.2	442.0	452.3	464.8	469.7
40°	418.0	424.6	435.4	449.6	455.0
42.5°	398.4	405.0	419.7	434.4	439.3
45°	377.8	384.8	400.6	418.6	424.6
47.5°	354.9	363.1	383.2	402.2	408.8
50°	331.5	341.8	364.1	385.4	393.0
52.5°	307.0	320.1	345.6	368.0	375.0
55°	283.0	297.2	326.6	349.4	358.2
57.5°	258.5	273.8	307.0	333.1	338.0
60°	231.9	250.4	286.9	309.7	316.2
62.5°	205.7	227.0	266.2	287.9	293.4
65°	180.7	203.6	244.9	265.1	268.9
67.5°	153.5	180.7	221.5	240.0	241.1
70°	127.4	158.9	198.7	207.4	200.3
72.5°	101.8	135.5	172.0	164.9	158.9
75°	79.5	113.8	139.9	125.7	122.5
77.5°	58.8	93.1	100.2	92.5	86.5
80°	41.9	73.5	67.5	57.7	55.0
82.5°	28.8	46.3	37.0	28.8	25.0
85°	16.3	20.7	13.1	8.2	6.5
87.5°	7.1	4.9	2.7	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)