

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: P307045

Luminaire Tested: **14FCZ2-25-UNV-L82765-HRP-CP125-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: P307045
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-CP125-W2A-U-3500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" POLYCARB 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: 1697.0 lumens
Efficiency: N/A
Efficacy: 86.1 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

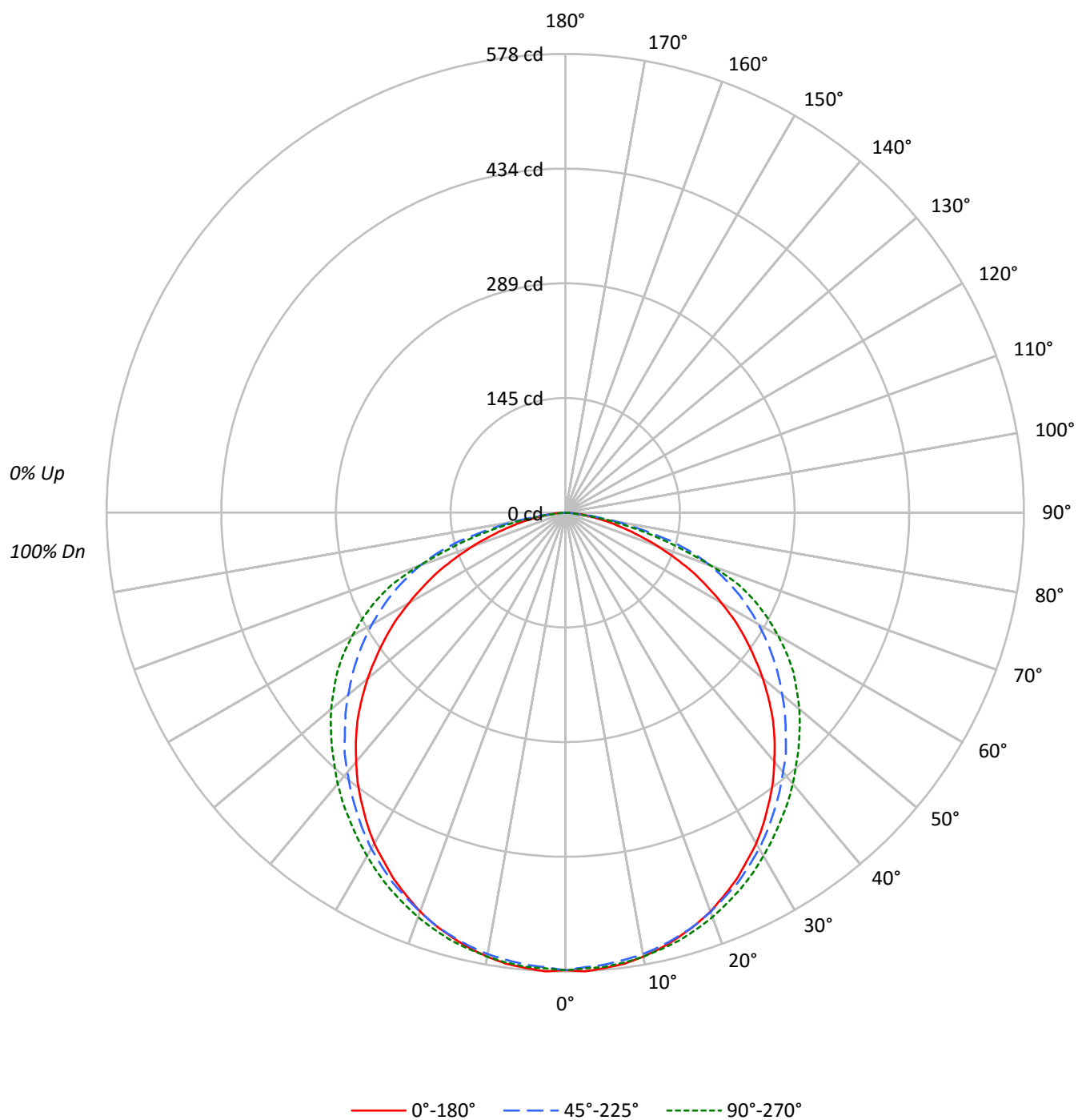
Input Watts (W): 19.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1551	1551	1551
5°	1555	1544	1551
10°	1552	1543	1552
15°	1542	1539	1553
20°	1531	1533	1553
25°	1515	1527	1553
30°	1496	1519	1552
35°	1469	1508	1555
40°	1440	1500	1567
45°	1409	1494	1584
50°	1361	1495	1613
55°	1302	1502	1647
60°	1223	1513	1668
65°	1128	1529	1678
70°	983	1533	1545
75°	810	1425	1249
80°	637	1026	835
85°	494	395	198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	3.2
10°-20°	156.6	9.2
20°-30°	237.7	14.0
30°-40°	288.1	17.0
40°-50°	303.6	17.9
50°-60°	283.4	16.7
60°-70°	226.5	13.3
70°-80°	124.6	7.3
80°-90°	22.0	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°	448.9	26.5
0°-40°	736.9	43.4
0°-60°	1323.9	78.0
0°-90°	1697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	576	574	572	575	574	55
15°	553	553	552	558	558	156
25°	510	511	514	522	523	235
35°	447	451	459	471	473	280
45°	370	377	393	410	416	285
55°	278	291	320	343	351	248
65°	177	200	240	260	264	174
75°	78	112	137	123	120	84
85°	16	20	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°	576.3	576.3	576.3	576.3	576.3
2.5°	578.4	576.8	573.1	576.3	574.7
5°	575.8	574.2	571.5	575.2	574.2
7.5°	573.1	571.0	568.3	572.6	571.5
10°	567.8	566.2	564.6	568.3	567.8
12.5°	561.4	560.8	559.2	563.5	563.0
15°	553.4	553.4	552.3	557.6	557.6
17.5°	544.8	544.3	544.8	550.7	550.2
20°	534.7	534.7	535.2	542.2	542.2
22.5°	522.4	522.9	524.5	533.1	532.6
25°	510.1	511.2	514.4	521.9	522.9
27.5°	495.2	497.9	501.6	510.7	511.7
30°	481.3	482.9	488.8	497.3	499.5
32.5°	464.8	468.0	474.4	484.0	486.7
35°	447.2	451.4	458.9	470.7	473.3
37.5°	429.6	433.3	443.4	455.7	460.5
40°	409.8	416.2	426.9	440.8	446.1
42.5°	390.6	397.0	411.4	425.8	430.6
45°	370.3	377.3	392.7	410.4	416.2
47.5°	347.9	355.9	375.7	394.3	400.7
50°	325.0	335.1	357.0	377.8	385.3
52.5°	301.0	313.8	338.8	360.7	367.7
55°	277.5	291.4	320.2	342.6	351.1
57.5°	253.5	268.4	301.0	326.6	331.4
60°	227.3	245.5	281.2	303.6	310.0
62.5°	201.7	222.5	260.9	282.3	287.6
65°	177.2	199.6	240.1	259.9	263.6
67.5°	150.5	177.2	217.2	235.3	236.4
70°	124.9	155.8	194.8	203.3	196.4
72.5°	99.8	132.9	168.6	161.7	155.8
75°	77.9	111.5	137.1	123.3	120.1
77.5°	57.6	91.2	98.2	90.7	84.8
80°	41.1	72.0	66.2	56.6	53.9
82.5°	28.3	45.4	36.3	28.3	24.5
85°	16.0	20.3	12.8	8.0	6.4
87.5°	6.9	4.8	2.7	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)