

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: P307051

Luminaire Tested: **14FCZ2-25-UNV-L82765-HRP-CP125-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: P307051
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-6500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125"
POLYCARB 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: 1816.0 lumens
Efficiency: N/A
Efficacy: 88.6 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

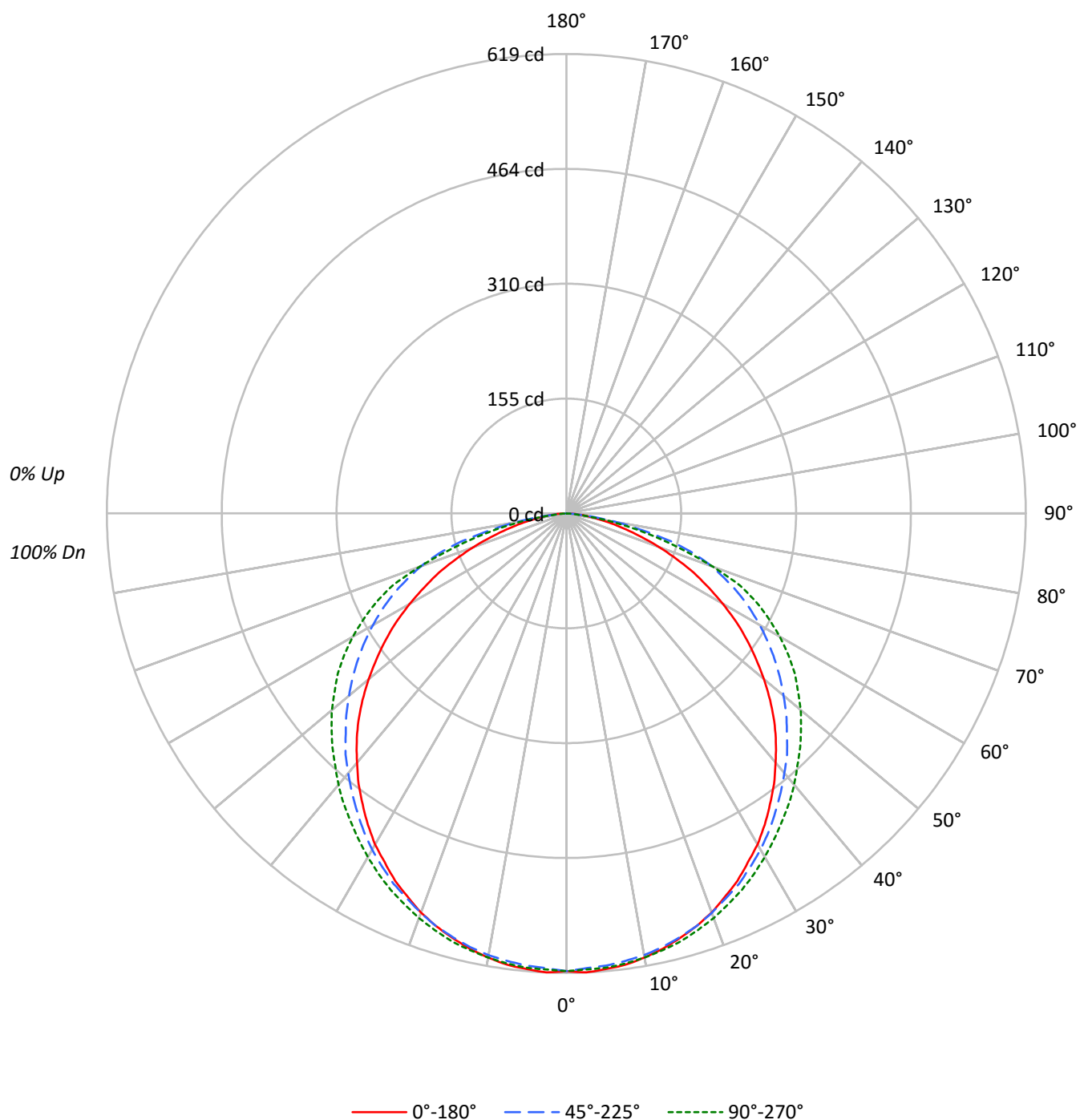
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1660	1660	1660
5°	1665	1652	1660
10°	1660	1651	1660
15°	1650	1646	1662
20°	1639	1640	1662
25°	1621	1635	1662
30°	1601	1625	1661
35°	1572	1613	1664
40°	1541	1605	1677
45°	1508	1600	1695
50°	1456	1599	1726
55°	1393	1607	1763
60°	1309	1619	1786
65°	1207	1636	1796
70°	1051	1640	1653
75°	867	1526	1336
80°	682	1097	894
85°	528	423	213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	3.2
10°-20°	167.5	9.2
20°-30°	254.4	14.0
30°-40°	308.3	17.0
40°-50°	324.8	17.9
50°-60°	303.3	16.7
60°-70°	242.4	13.3
70°-80°	133.4	7.3
80°-90°	23.6	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°	480.4	26.5
0°-40°	788.6	43.4
0°-60°	1416.7	78.0
0°-90°	1816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	616	614	612	616	614	59
15°	592	592	591	597	597	167
25°	546	547	550	558	560	251
35°	478	483	491	504	506	299
45°	396	404	420	439	445	305
55°	297	312	343	367	376	265
65°	190	214	257	278	282	187
75°	83	119	147	132	128	90
85°	17	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°	616.7	616.7	616.7	616.7	616.7
2.5°	619.0	617.3	613.3	616.7	615.0
5°	616.2	614.4	611.6	615.6	614.4
7.5°	613.3	611.0	608.2	612.7	611.6
10°	607.6	605.9	604.2	608.2	607.6
12.5°	600.7	600.2	598.4	603.0	602.4
15°	592.2	592.2	591.0	596.7	596.7
17.5°	583.0	582.5	583.0	589.3	588.7
20°	572.2	572.2	572.8	580.2	580.2
22.5°	559.0	559.6	561.3	570.5	569.9
25°	545.9	547.1	550.5	558.5	559.6
27.5°	529.9	532.8	536.8	546.5	547.6
30°	515.1	516.8	523.1	532.2	534.5
32.5°	497.4	500.8	507.7	517.9	520.8
35°	478.5	483.1	491.1	503.7	506.5
37.5°	459.7	463.7	474.5	487.7	492.8
40°	438.6	445.4	456.8	471.7	477.4
42.5°	418.0	424.9	440.3	455.7	460.8
45°	396.3	403.7	420.3	439.1	445.4
47.5°	372.3	380.9	402.0	422.0	428.9
50°	347.8	358.6	382.0	404.3	412.3
52.5°	322.1	335.8	362.6	386.0	393.4
55°	296.9	311.8	342.6	366.6	375.7
57.5°	271.2	287.2	322.1	349.5	354.6
60°	243.3	262.7	300.9	324.9	331.8
62.5°	215.9	238.1	279.2	302.1	307.8
65°	189.6	213.6	257.0	278.1	282.1
67.5°	161.0	189.6	232.4	251.8	253.0
70°	133.6	166.7	208.4	217.6	210.1
72.5°	106.8	142.2	180.4	173.0	166.7
75°	83.4	119.3	146.8	131.9	128.5
77.5°	61.7	97.6	105.1	97.1	90.8
80°	44.0	77.1	70.8	60.5	57.7
82.5°	30.3	48.5	38.8	30.3	26.3
85°	17.1	21.7	13.7	8.6	6.9
87.5°	7.4	5.1	2.9	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)