

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: P307049

Luminaire Tested: **14FCZ2-25-UNV-L82765-HRP-CP125-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: P307049
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-5500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" POLYCARB 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: 1807.0 lumens
Efficiency: N/A
Efficacy: 89.5 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

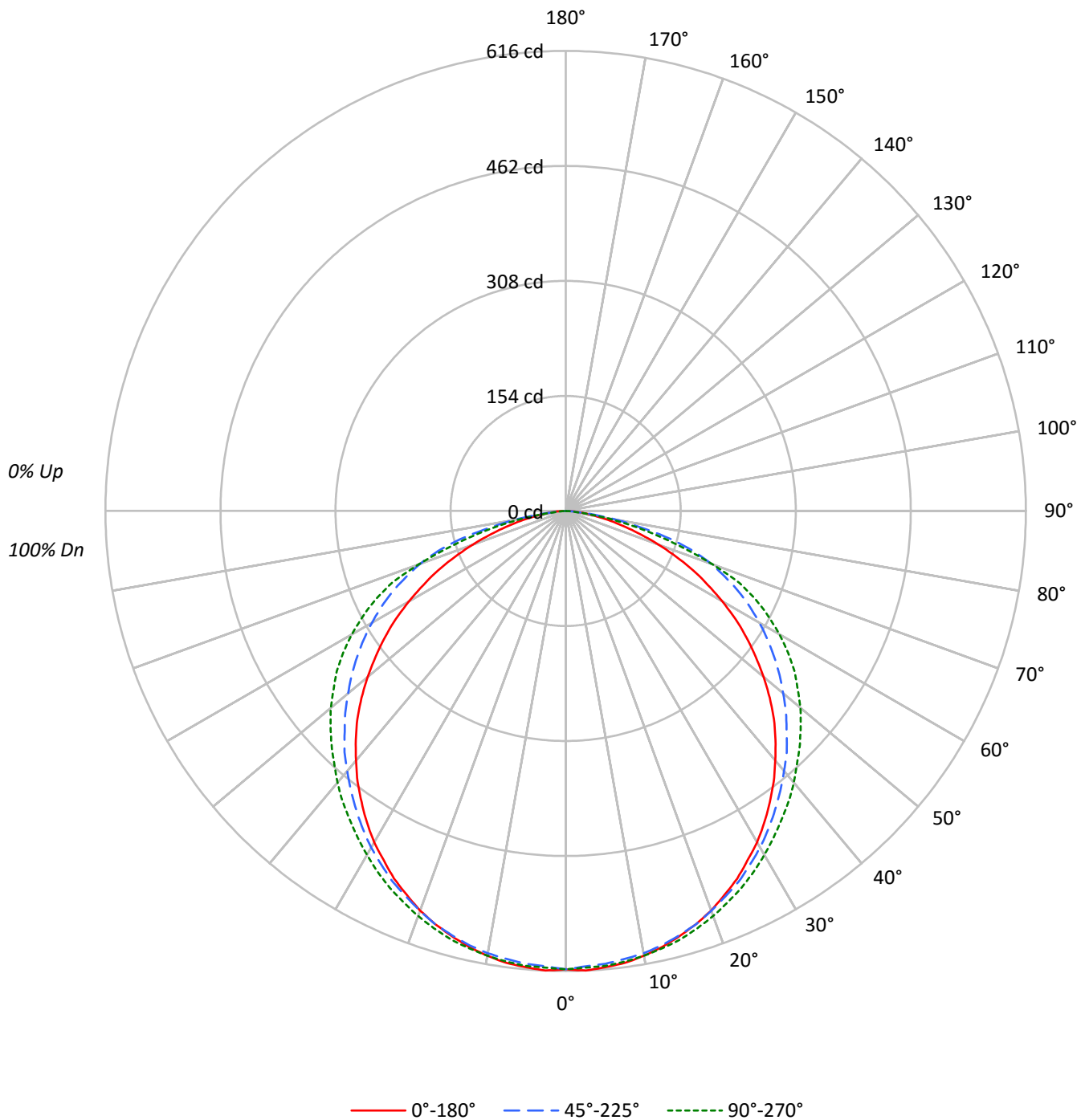
Input Watts (W): 20.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1651	1651	1651
5°	1656	1644	1652
10°	1652	1643	1652
15°	1641	1638	1654
20°	1630	1632	1653
25°	1613	1627	1653
30°	1592	1617	1652
35°	1564	1605	1656
40°	1533	1597	1669
45°	1501	1592	1687
50°	1449	1591	1717
55°	1386	1599	1754
60°	1303	1611	1777
65°	1201	1628	1787
70°	1046	1632	1645
75°	863	1518	1329
80°	679	1093	890
85°	525	420	210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	3.2
10°-20°	166.7	9.2
20°-30°	253.2	14.0
30°-40°	306.8	17.0
40°-50°	323.2	17.9
50°-60°	301.8	16.7
60°-70°	241.2	13.3
70°-80°	132.7	7.3
80°-90°	23.4	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°	478.0	26.5
0°-40°	784.7	43.4
0°-60°	1409.7	78.0
0°-90°	1807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	613	611	609	612	611	58
15°	589	589	588	594	594	166
25°	543	544	548	556	557	250
35°	476	481	489	501	504	298
45°	394	402	418	437	443	303
55°	296	310	341	365	374	264
65°	189	212	256	277	281	186
75°	83	119	146	131	128	89
85°	17	22	14	8	7	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	613.7	613.7	613.7	613.7	613.7
2.5°	615.9	614.2	610.3	613.7	612.0
5°	613.1	611.4	608.6	612.5	611.4
7.5°	610.3	608.0	605.1	609.7	608.6
10°	604.6	602.9	601.2	605.1	604.6
12.5°	597.8	597.2	595.5	600.0	599.5
15°	589.2	589.2	588.1	593.8	593.8
17.5°	580.1	579.6	580.1	586.4	585.8
20°	569.3	569.3	569.9	577.3	577.3
22.5°	556.3	556.8	558.6	567.6	567.1
25°	543.2	544.3	547.8	555.7	556.8
27.5°	527.3	530.1	534.1	543.8	544.9
30°	512.5	514.2	520.5	529.6	531.8
32.5°	494.9	498.3	505.1	515.4	518.2
35°	476.2	480.7	488.7	501.2	504.0
37.5°	457.4	461.4	472.2	485.3	490.4
40°	436.4	443.2	454.6	469.3	475.0
42.5°	415.9	422.7	438.1	453.4	458.5
45°	394.3	401.7	418.2	437.0	443.2
47.5°	370.5	379.0	400.0	419.9	426.7
50°	346.0	356.8	380.1	402.3	410.2
52.5°	320.5	334.1	360.8	384.1	391.5
55°	295.5	310.2	340.9	364.8	373.9
57.5°	269.9	285.8	320.5	347.7	352.9
60°	242.1	261.4	299.4	323.3	330.1
62.5°	214.8	236.9	277.9	300.6	306.3
65°	188.6	212.5	255.7	276.7	280.7
67.5°	160.2	188.6	231.3	250.6	251.7
70°	133.0	165.9	207.4	216.5	209.1
72.5°	106.3	141.5	179.6	172.2	165.9
75°	83.0	118.8	146.0	131.3	127.8
77.5°	61.4	97.2	104.6	96.6	90.3
80°	43.8	76.7	70.5	60.2	57.4
82.5°	30.1	48.3	38.6	30.1	26.1
85°	17.0	21.6	13.6	8.5	6.8
87.5°	7.4	5.1	2.8	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)