

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: P307087

Luminaire Tested: **14FCZ2-29-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: P307087
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: 14FCZ2-29-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: 2214.0 lumens
Efficiency: N/A
Efficacy: 88.9 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

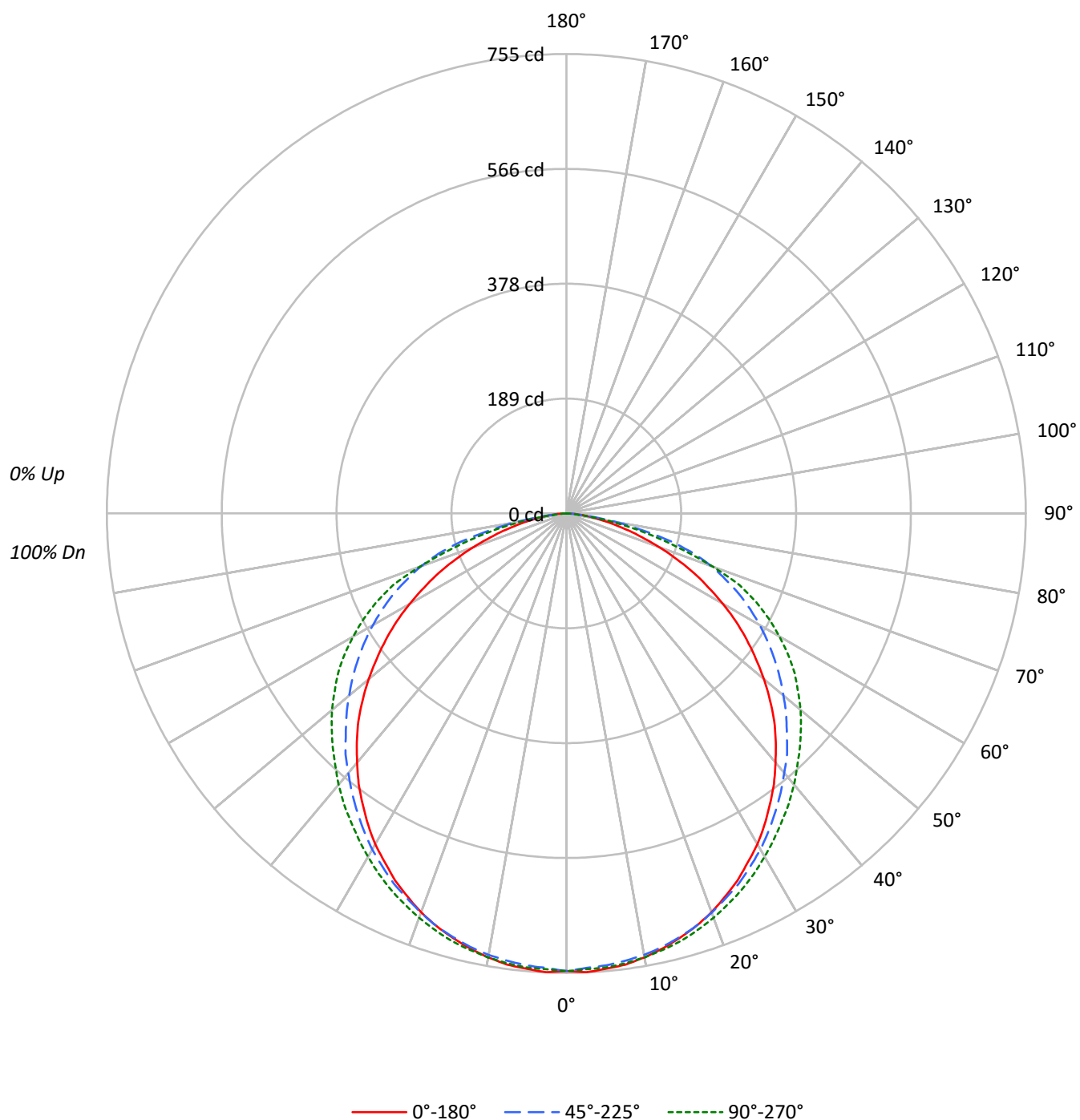
Input Watts (W): 24.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2023	2023	2023
5°	2029	2014	2024
10°	2024	2013	2024
15°	2011	2008	2027
20°	1998	2000	2025
25°	1976	1993	2026
30°	1951	1982	2025
35°	1917	1967	2029
40°	1878	1957	2044
45°	1839	1950	2066
50°	1775	1950	2104
55°	1698	1960	2149
60°	1596	1975	2177
65°	1472	1995	2190
70°	1282	1999	2016
75°	1056	1860	1628
80°	831	1337	1089
85°	645	516	259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	3.2
10°-20°	204.3	9.2
20°-30°	310.2	14.0
30°-40°	375.8	17.0
40°-50°	396.1	17.9
50°-60°	369.7	16.7
60°-70°	295.5	13.3
70°-80°	162.6	7.3
80°-90°	28.7	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°	585.6	26.5
0°-40°	961.5	43.4
0°-60°	1727.3	78.0
0°-90°	2214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	751	749	746	750	749	71
15°	722	722	721	728	728	204
25°	666	667	671	681	682	306
35°	583	589	599	614	618	365
45°	483	492	512	535	543	372
55°	362	380	418	447	458	323
65°	231	260	313	339	344	228
75°	102	146	179	161	157	109
85°	21	26	17	10	8	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	751.9	751.9	751.9	751.9	751.9
2.5°	754.7	752.6	747.7	751.9	749.8
5°	751.2	749.1	745.6	750.5	749.1
7.5°	747.7	744.9	741.4	747.0	745.6
10°	740.7	738.7	736.6	741.4	740.7
12.5°	732.4	731.7	729.6	735.2	734.5
15°	721.9	721.9	720.6	727.5	727.5
17.5°	710.8	710.1	710.8	718.5	717.8
20°	697.6	697.6	698.3	707.3	707.3
22.5°	681.6	682.3	684.4	695.5	694.8
25°	665.6	667.0	671.1	680.9	682.3
27.5°	646.1	649.5	654.4	666.3	667.6
30°	628.0	630.1	637.7	648.8	651.6
32.5°	606.4	610.6	618.9	631.4	634.9
35°	583.4	589.0	598.7	614.0	617.5
37.5°	560.4	565.3	578.5	594.5	600.8
40°	534.7	543.0	557.0	575.1	582.0
42.5°	509.6	518.0	536.8	555.6	561.8
45°	483.2	492.2	512.4	535.4	543.0
47.5°	453.9	464.4	490.1	514.5	522.8
50°	424.0	437.2	465.8	492.9	502.6
52.5°	392.7	409.4	442.1	470.6	479.7
55°	362.0	380.1	417.7	447.0	458.1
57.5°	330.7	350.2	392.7	426.1	432.3
60°	296.6	320.2	366.9	396.1	404.5
62.5°	263.2	290.3	340.4	368.3	375.2
65°	231.1	260.4	313.3	339.0	343.9
67.5°	196.3	231.1	283.3	307.0	308.4
70°	162.9	203.3	254.1	265.2	256.2
72.5°	130.2	173.4	220.0	210.9	203.3
75°	101.6	145.5	178.9	160.8	156.6
77.5°	75.2	119.0	128.1	118.4	110.7
80°	53.6	94.0	86.3	73.8	70.3
82.5°	36.9	59.2	47.3	36.9	32.0
85°	20.9	26.5	16.7	10.4	8.4
87.5°	9.1	6.3	3.5	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)