

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: P307900

Luminaire Tested: **14FCZ2-29-UNV-L82765-S-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: P307900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
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-S-CP125-W2A-U-3500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH 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: 2701.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

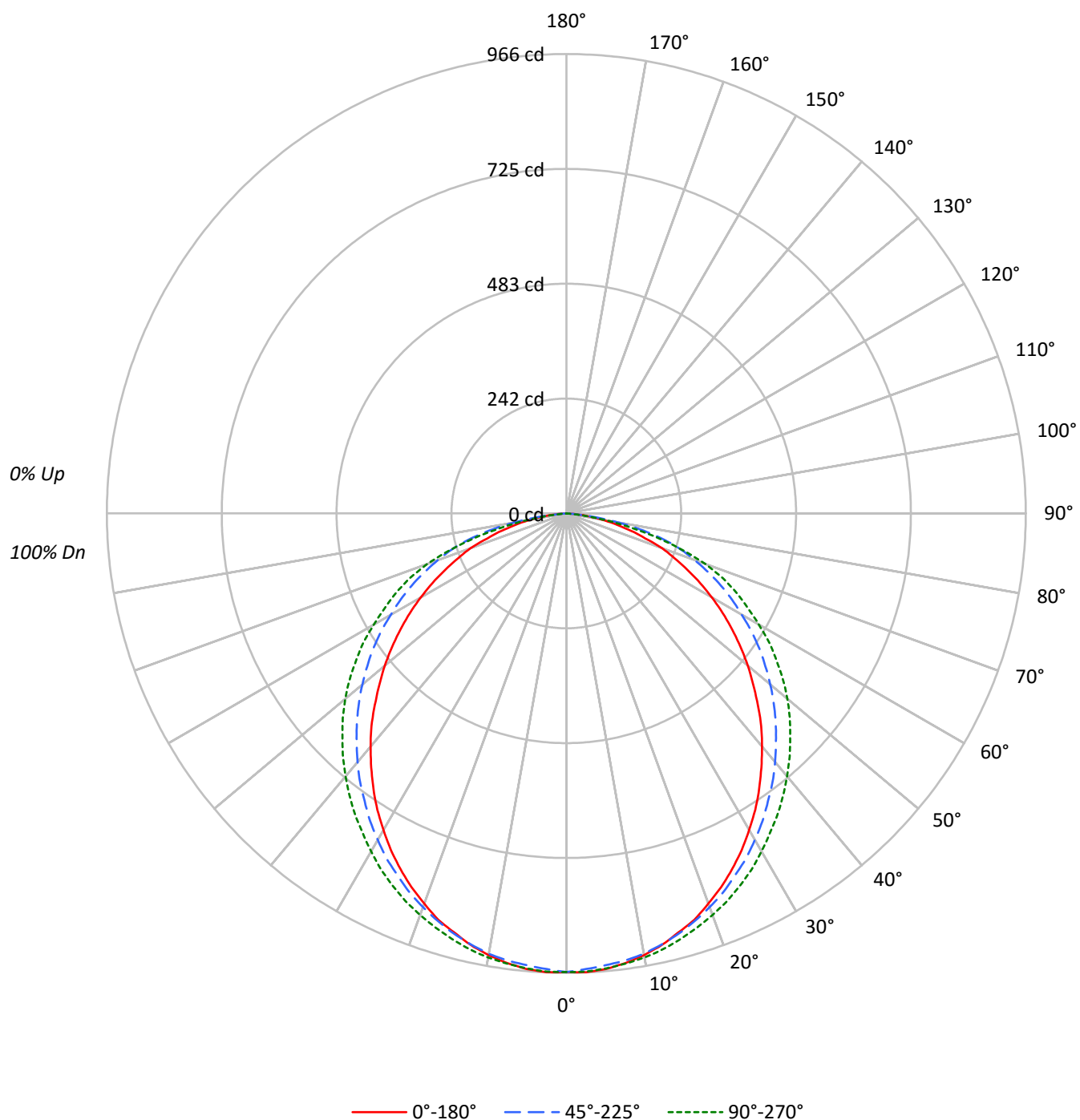
Input Watts (W): 23.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		94	91	89		84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2595	2595	2595
5°	2597	2576	2594
10°	2576	2569	2591
15°	2541	2548	2582
20°	2500	2523	2573
25°	2449	2493	2565
30°	2389	2463	2551
35°	2323	2428	2543
40°	2249	2399	2536
45°	2166	2370	2533
50°	2086	2344	2540
55°	1998	2325	2532
60°	1903	2292	2516
65°	1791	2285	2516
70°	1686	2265	2445
75°	1462	2214	2089
80°	1182	1785	1390
85°	784	621	414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.4
10°-20°	259.1	9.6
20°-30°	388.6	14.4
30°-40°	463.6	17.2
40°-50°	479.3	17.7
50°-60°	437.6	16.2
60°-70°	344.4	12.7
70°-80°	200.5	7.4
80°-90°	36.9	1.4
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°	738.8	27.4
0°-40°	1202.4	44.5
0°-60°	2119.3	78.5
0°-90°	2701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	962	959	954	962	960	91
15°	912	913	915	927	927	257
25°	825	829	840	860	864	380
35°	707	716	739	767	774	442
45°	569	588	623	658	666	440
55°	426	449	496	532	540	381
65°	281	311	359	387	395	279
75°	141	174	213	209	201	149
85°	25	36	20	16	13	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	964.2	964.2	964.2	964.2	964.2
2.5°	965.6	962.9	958.9	965.6	964.2
5°	961.5	958.9	953.5	961.5	960.2
7.5°	953.5	950.8	948.1	956.2	954.8
10°	942.8	941.4	940.1	949.5	948.1
12.5°	929.4	929.4	928.1	938.8	938.8
15°	912.0	913.3	914.7	926.7	926.7
17.5°	895.9	894.6	898.6	912.0	913.3
20°	873.1	875.8	881.2	897.3	898.6
22.5°	850.4	853.1	862.4	878.5	882.5
25°	824.9	829.0	839.7	859.8	863.8
27.5°	798.2	803.5	818.2	839.7	843.7
30°	768.7	776.7	792.8	816.9	820.9
32.5°	739.2	747.3	767.4	791.5	796.8
35°	707.1	716.5	739.2	767.4	774.0
37.5°	673.6	685.7	712.4	740.6	748.6
40°	640.1	653.5	683.0	712.4	721.8
42.5°	606.7	620.0	652.2	685.7	695.0
45°	569.2	587.9	622.7	657.5	665.6
47.5°	533.0	553.1	591.9	626.7	637.5
50°	498.2	518.3	559.8	595.9	606.7
52.5°	462.0	483.4	527.6	565.1	574.5
55°	425.9	448.6	495.5	531.7	539.7
57.5°	389.7	413.8	462.0	496.8	506.2
60°	353.5	379.0	425.9	460.7	467.4
62.5°	317.4	344.2	392.4	423.2	429.9
65°	281.2	310.7	358.9	387.0	395.1
67.5°	246.4	275.9	322.7	349.5	356.2
70°	214.3	241.1	287.9	308.0	310.7
72.5°	174.1	207.6	253.1	263.8	257.1
75°	140.6	174.1	212.9	208.9	200.9
77.5°	107.1	140.6	166.1	152.7	142.0
80°	76.3	109.8	115.2	95.1	89.7
82.5°	49.5	76.3	64.3	49.5	40.2
85°	25.4	36.2	20.1	16.1	13.4
87.5°	8.0	5.4	2.7	2.7	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)