

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: P307895

Luminaire Tested: **14FCZ2-29-UNV-L82765-S-CA125-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: P307895
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-CA125-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC 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: 2933.0 lumens
Efficiency: N/A
Efficacy: 119.7 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

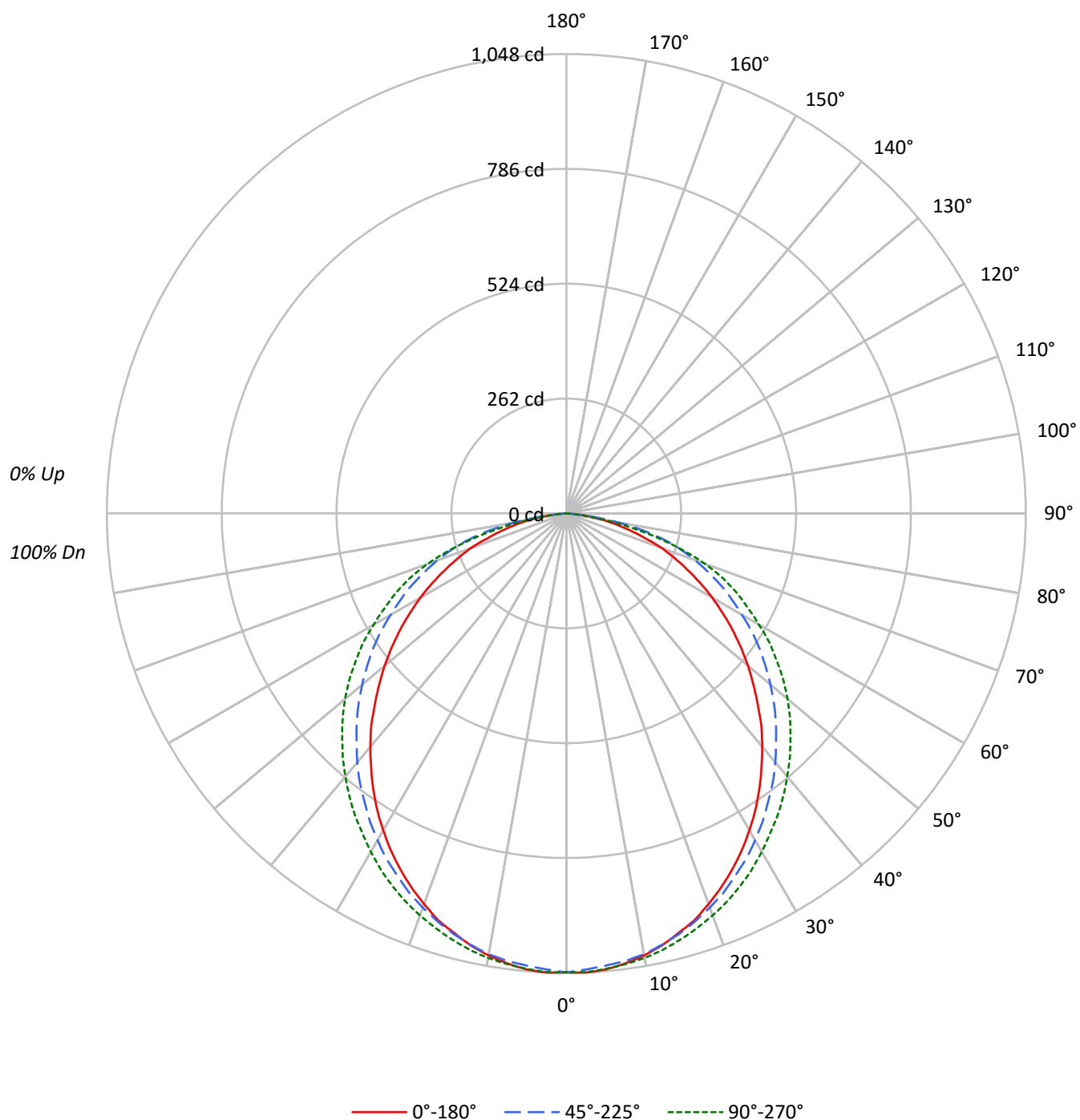
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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°	2817	2817	2817
5°	2820	2797	2817
10°	2798	2790	2813
15°	2759	2767	2803
20°	2715	2740	2794
25°	2660	2707	2785
30°	2594	2675	2770
35°	2522	2637	2761
40°	2442	2605	2753
45°	2352	2573	2750
50°	2265	2545	2758
55°	2169	2525	2749
60°	2066	2489	2731
65°	1945	2481	2732
70°	1831	2460	2655
75°	1588	2404	2268
80°	1285	1939	1509
85°	852	673	448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.4
10°-20°	281.3	9.6
20°-30°	422.0	14.4
30°-40°	503.4	17.2
40°-50°	520.5	17.7
50°-60°	475.2	16.2
60°-70°	373.9	12.7
70°-80°	217.7	7.4
80°-90°	40.1	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°	802.2	27.4
0°-40°	1305.7	44.5
0°-60°	2301.3	78.5
0°-90°	2933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1044	1041	1035	1044	1043	99
15°	990	992	993	1006	1006	279
25°	896	900	912	934	938	412
35°	768	778	803	833	840	480
45°	618	638	676	714	723	477
55°	462	487	538	577	586	414
65°	305	337	390	420	429	303
75°	153	189	231	227	218	162
85°	28	39	22	18	14	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1047.0	1047.0	1047.0	1047.0	1047.0
2.5°	1048.5	1045.6	1041.2	1048.5	1047.0
5°	1044.1	1041.2	1035.4	1044.1	1042.7
7.5°	1035.4	1032.5	1029.6	1038.3	1036.9
10°	1023.8	1022.3	1020.9	1031.0	1029.6
12.5°	1009.2	1009.2	1007.8	1019.4	1019.4
15°	990.3	991.8	993.2	1006.3	1006.3
17.5°	972.9	971.4	975.8	990.3	991.8
20°	948.1	951.1	956.9	974.3	975.8
22.5°	923.4	926.3	936.5	954.0	958.3
25°	895.8	900.2	911.8	933.6	938.0
27.5°	866.7	872.5	888.5	911.8	916.2
30°	834.7	843.4	860.9	887.1	891.4
32.5°	802.7	811.5	833.3	859.4	865.3
35°	767.8	778.0	802.7	833.3	840.5
37.5°	731.5	744.6	773.6	804.2	812.9
40°	695.1	709.7	741.6	773.6	783.8
42.5°	658.8	673.3	708.2	744.6	754.7
45°	618.0	638.4	676.2	714.0	722.7
47.5°	578.8	600.6	642.8	680.6	692.2
50°	541.0	562.8	607.9	647.1	658.8
52.5°	501.7	525.0	573.0	613.7	623.9
55°	462.4	487.2	538.1	577.3	586.0
57.5°	423.2	449.4	501.7	539.5	549.7
60°	383.9	411.5	462.4	500.2	507.5
62.5°	344.6	373.7	426.1	459.5	466.8
65°	305.4	337.4	389.7	420.3	429.0
67.5°	267.6	299.6	350.5	379.5	386.8
70°	232.7	261.8	312.7	334.5	337.4
72.5°	189.0	225.4	274.8	286.5	279.2
75°	152.7	189.0	231.2	226.9	218.1
77.5°	116.3	152.7	180.3	165.8	154.1
80°	82.9	119.2	125.1	103.2	97.4
82.5°	53.8	82.9	69.8	53.8	43.6
85°	27.6	39.3	21.8	17.5	14.5
87.5°	8.7	5.8	2.9	2.9	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)