

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: P307897

Luminaire Tested: **14FCZ2-29-UNV-L82765-S-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: P307897
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-6500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH 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: 2949.0 lumens
Efficiency: N/A
Efficacy: 118.4 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

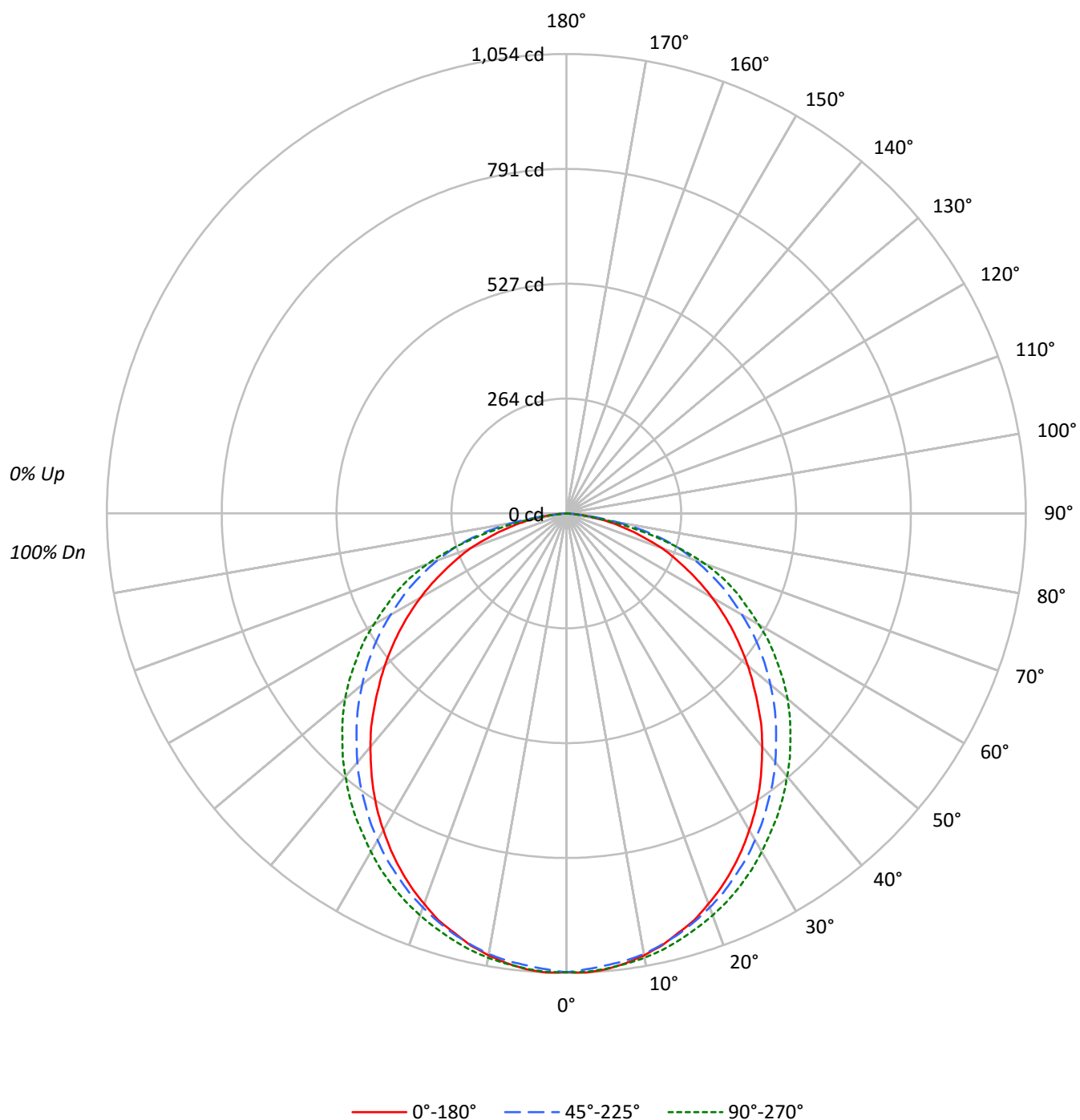
Input Watts (W): 24.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2833	2833	2833
5°	2836	2812	2832
10°	2813	2805	2829
15°	2774	2782	2819
20°	2730	2755	2810
25°	2674	2722	2800
30°	2608	2690	2785
35°	2536	2651	2776
40°	2455	2620	2768
45°	2365	2587	2766
50°	2277	2559	2773
55°	2182	2538	2764
60°	2077	2503	2746
65°	1955	2495	2746
70°	1840	2474	2669
75°	1596	2417	2280
80°	1291	1948	1519
85°	858	676	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	3.4
10°-20°	282.9	9.6
20°-30°	424.3	14.4
30°-40°	506.2	17.2
40°-50°	523.3	17.7
50°-60°	477.8	16.2
60°-70°	376.0	12.7
70°-80°	218.9	7.4
80°-90°	40.3	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°	806.6	27.4
0°-40°	1312.8	44.5
0°-60°	2313.9	78.5
0°-90°	2949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1050	1047	1041	1050	1048	100
15°	996	997	999	1012	1012	281
25°	901	905	917	939	943	415
35°	772	782	807	838	845	483
45°	621	642	680	718	727	480
55°	465	490	541	580	589	416
65°	307	339	392	423	431	305
75°	154	190	232	228	219	163
85°	28	40	22	18	15	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.7	1052.7	1052.7	1052.7	1052.7
2.5°	1054.2	1051.3	1046.9	1054.2	1052.7
5°	1049.8	1046.9	1041.0	1049.8	1048.4
7.5°	1041.0	1038.1	1035.2	1044.0	1042.5
10°	1029.3	1027.9	1026.4	1036.7	1035.2
12.5°	1014.7	1014.7	1013.3	1025.0	1025.0
15°	995.7	997.2	998.6	1011.8	1011.8
17.5°	978.2	976.7	981.1	995.7	997.2
20°	953.3	956.2	962.1	979.6	981.1
22.5°	928.5	931.4	941.6	959.2	963.6
25°	900.7	905.1	916.8	938.7	943.1
27.5°	871.4	877.3	893.4	916.8	921.2
30°	839.3	848.0	865.6	891.9	896.3
32.5°	807.1	815.9	837.8	864.1	870.0
35°	772.0	782.2	807.1	837.8	845.1
37.5°	735.5	748.6	777.9	808.6	817.3
40°	698.9	713.5	745.7	777.9	788.1
42.5°	662.4	677.0	712.1	748.6	758.9
45°	621.4	641.9	679.9	717.9	726.7
47.5°	581.9	603.9	646.3	684.3	696.0
50°	543.9	565.8	611.2	650.7	662.4
52.5°	504.4	527.8	576.1	617.0	627.3
55°	465.0	489.8	541.0	580.5	589.2
57.5°	425.5	451.8	504.4	542.5	552.7
60°	386.0	413.8	465.0	503.0	510.3
62.5°	346.5	375.8	428.4	462.0	469.3
65°	307.1	339.2	391.9	422.6	431.3
67.5°	269.0	301.2	352.4	381.6	388.9
70°	233.9	263.2	314.4	336.3	339.2
72.5°	190.1	226.6	276.3	288.0	280.7
75°	153.5	190.1	232.5	228.1	219.3
77.5°	117.0	153.5	181.3	166.7	155.0
80°	83.3	119.9	125.7	103.8	98.0
82.5°	54.1	83.3	70.2	54.1	43.9
85°	27.8	39.5	21.9	17.5	14.6
87.5°	8.8	5.8	2.9	2.9	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)