

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: P307626

Luminaire Tested: **14FCZ2-29-UNV-L82765-CA125-W2A-U-5700K**

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: P307626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
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-CA125-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 5700K 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

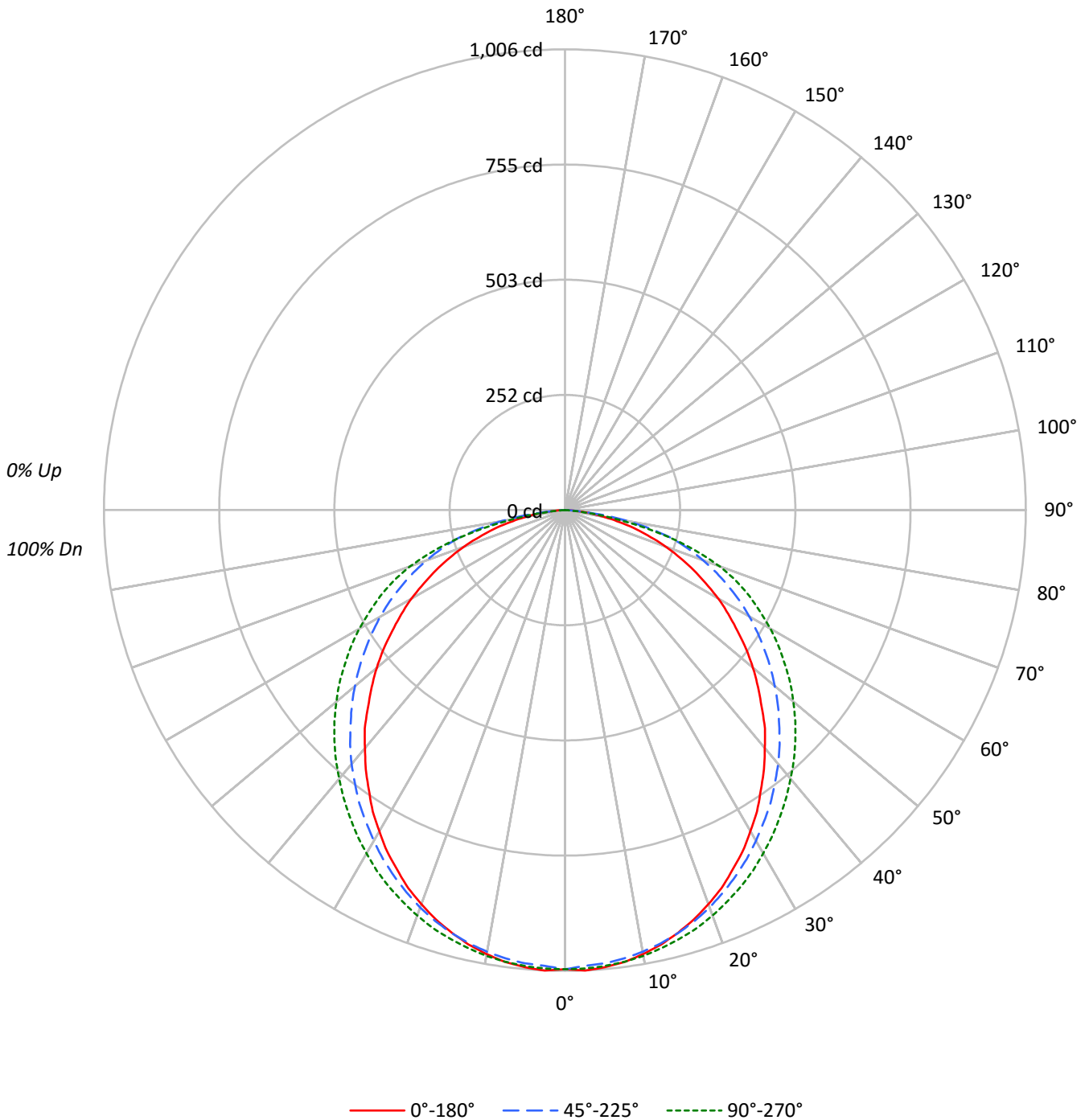
Lumens per Lamp: N/A
Luminaire Lumens: 2910.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (A_{in}): 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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2698	2698	2698
5°	2706	2683	2699
10°	2690	2675	2700
15°	2661	2663	2699
20°	2622	2644	2698
25°	2572	2618	2695
30°	2516	2591	2690
35°	2449	2569	2688
40°	2384	2544	2692
45°	2311	2516	2707
50°	2244	2505	2725
55°	2158	2496	2749
60°	2081	2500	2787
65°	1975	2508	2830
70°	1853	2527	2829
75°	1680	2550	2557
80°	1378	2202	1819
85°	1022	1041	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.3
10°-20°	271.0	9.3
20°-30°	408.2	14.0
30°-40°	489.9	16.8
40°-50°	510.6	17.5
50°-60°	472.7	16.2
60°-70°	381.9	13.1
70°-80°	232.9	8.0
80°-90°	48.1	1.7
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°	774.1	26.6
0°-40°	1263.9	43.4
0°-60°	2247.2	77.2
0°-90°	2910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1002	999	993	1001	999	95
15°	955	956	956	969	969	269
25°	866	871	882	904	908	399
35°	746	757	782	810	818	467
45°	607	626	661	698	711	469
55°	460	484	532	574	586	412
65°	310	341	394	433	444	307
75°	162	197	245	249	246	170
85°	33	49	34	19	14	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1002.5	1002.5	1002.5	1002.5	1002.5
2.5°	1006.4	1003.2	996.0	1003.2	1001.9
5°	1001.9	999.3	993.4	1000.6	999.3
7.5°	995.4	992.8	987.6	996.0	994.7
10°	984.3	983.0	979.1	988.9	988.2
12.5°	971.4	970.7	968.8	979.8	979.1
15°	955.1	955.8	955.8	968.8	968.8
17.5°	937.0	938.3	940.9	955.1	957.1
20°	915.6	918.2	923.3	939.6	942.2
22.5°	893.5	895.4	903.2	922.7	925.3
25°	866.2	871.4	881.8	903.9	907.8
27.5°	840.3	844.8	859.1	881.8	888.3
30°	809.8	816.9	833.8	858.5	865.6
32.5°	780.6	788.4	807.8	836.4	842.9
35°	745.6	757.2	781.9	810.4	818.2
37.5°	713.8	724.8	752.7	783.8	792.9
40°	678.7	692.3	724.1	757.2	766.3
42.5°	646.3	659.3	693.6	727.4	739.7
45°	607.3	625.5	661.2	698.2	711.2
47.5°	571.7	589.8	630.7	670.3	682.0
50°	536.0	555.4	598.3	639.1	650.8
52.5°	499.0	519.7	565.8	606.7	620.3
55°	460.0	484.1	532.1	573.6	585.9
57.5°	423.1	447.7	499.0	541.2	553.5
60°	386.7	412.0	464.6	504.8	517.8
62.5°	346.5	376.3	430.8	470.4	480.2
65°	310.2	340.7	393.9	433.4	444.5
67.5°	271.9	305.0	358.2	394.5	404.9
70°	235.5	269.9	321.2	354.9	359.5
72.5°	196.6	231.6	283.6	305.0	305.0
75°	161.6	197.3	245.3	249.2	245.9
77.5°	123.3	162.9	194.0	186.2	178.4
80°	88.9	127.8	142.1	127.8	117.4
82.5°	59.7	92.8	85.7	68.1	60.3
85°	33.1	49.3	33.7	18.8	13.6
87.5°	12.3	11.0	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)