

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: P307653

Luminaire Tested: **14FCZ2-29-UNV-L82765-CP250-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: P307653
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-CP250-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.250" POLYCARB 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: 2711.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

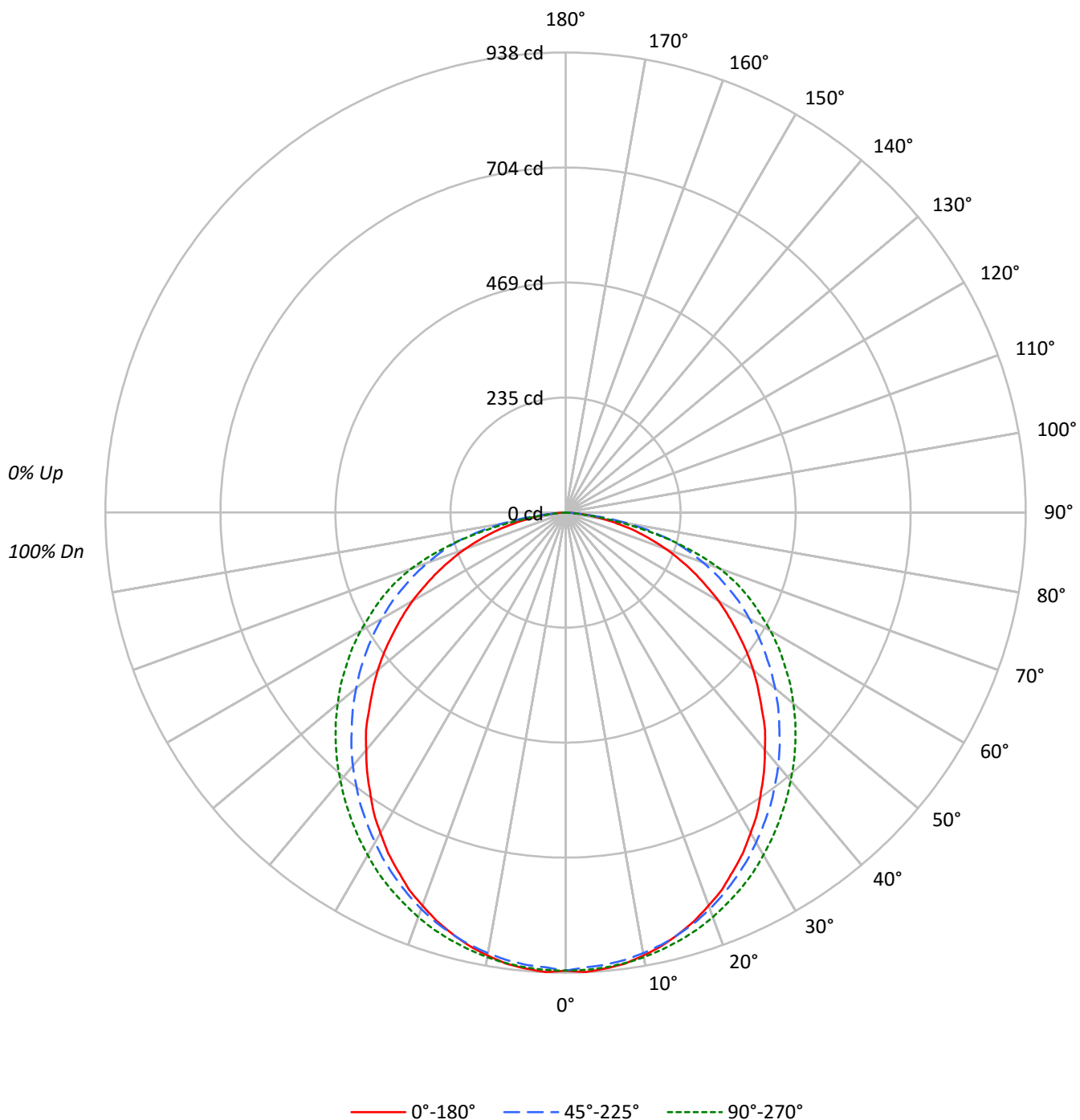
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		32
8	60	46	37	32	58	45	37	31	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	39	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2513	2513	2513
5°	2521	2500	2515
10°	2506	2493	2516
15°	2479	2481	2514
20°	2442	2463	2513
25°	2396	2439	2511
30°	2344	2414	2506
35°	2282	2393	2504
40°	2221	2370	2508
45°	2153	2344	2521
50°	2090	2333	2538
55°	2011	2326	2561
60°	1939	2329	2596
65°	1840	2336	2637
70°	1726	2354	2635
75°	1565	2376	2382
80°	1283	2052	1695
85°	951	969	392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.3
10°-20°	252.5	9.3
20°-30°	380.3	14.0
30°-40°	456.4	16.8
40°-50°	475.6	17.5
50°-60°	440.4	16.2
60°-70°	355.8	13.1
70°-80°	216.9	8.0
80°-90°	44.8	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°	721.1	26.6
0°-40°	1177.5	43.4
0°-60°	2093.5	77.2
0°-90°	2711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	933	931	926	932	931	89
15°	890	890	890	902	902	251
25°	807	812	822	842	846	372
35°	695	705	728	755	762	435
45°	566	583	616	650	662	437
55°	429	451	496	534	546	384
65°	289	317	367	404	414	286
75°	150	184	228	232	229	158
85°	31	46	31	18	13	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.9	933.9	933.9	933.9	933.9
2.5°	937.6	934.6	927.9	934.6	933.3
5°	933.3	930.9	925.5	932.1	930.9
7.5°	927.3	924.9	920.0	927.9	926.7
10°	917.0	915.8	912.2	921.3	920.6
12.5°	904.9	904.3	902.5	912.8	912.2
15°	889.8	890.4	890.4	902.5	902.5
17.5°	872.9	874.1	876.5	889.8	891.6
20°	852.9	855.4	860.2	875.3	877.7
22.5°	832.4	834.2	841.5	859.6	862.0
25°	807.0	811.8	821.5	842.1	845.7
27.5°	782.8	787.1	800.4	821.5	827.6
30°	754.4	761.1	776.8	799.7	806.4
32.5°	727.2	734.5	752.6	779.2	785.2
35°	694.6	705.4	728.4	755.0	762.3
37.5°	664.9	675.2	701.2	730.2	738.7
40°	632.3	645.0	674.6	705.4	713.9
42.5°	602.1	614.2	646.2	677.6	689.1
45°	565.8	582.7	616.0	650.4	662.5
47.5°	532.6	549.5	587.6	624.4	635.3
50°	499.3	517.4	557.3	595.4	606.3
52.5°	464.9	484.2	527.1	565.2	577.9
55°	428.6	451.0	495.7	534.4	545.9
57.5°	394.1	417.1	464.9	504.2	515.6
60°	360.3	383.9	432.8	470.3	482.4
62.5°	322.8	350.6	401.4	438.3	447.3
65°	288.9	317.4	366.9	403.8	414.1
67.5°	253.3	284.1	333.7	367.5	377.2
70°	219.4	251.5	299.2	330.7	334.9
72.5°	183.2	215.8	264.2	284.1	284.1
75°	150.5	183.8	228.5	232.1	229.1
77.5°	114.9	151.7	180.7	173.5	166.2
80°	82.8	119.1	132.4	119.1	109.4
82.5°	55.6	86.4	79.8	63.5	56.2
85°	30.8	45.9	31.4	17.5	12.7
87.5°	11.5	10.3	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)