

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: P307630

Luminaire Tested: **14FCZ2-29-UNV-L82765-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: P307630
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-CP125-W2A-U-3500K
Description: 1'X4' TROFFER LED MODULE,RIBBED 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: 2673.0 lumens
Efficiency: N/A
Efficacy: 111.8 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

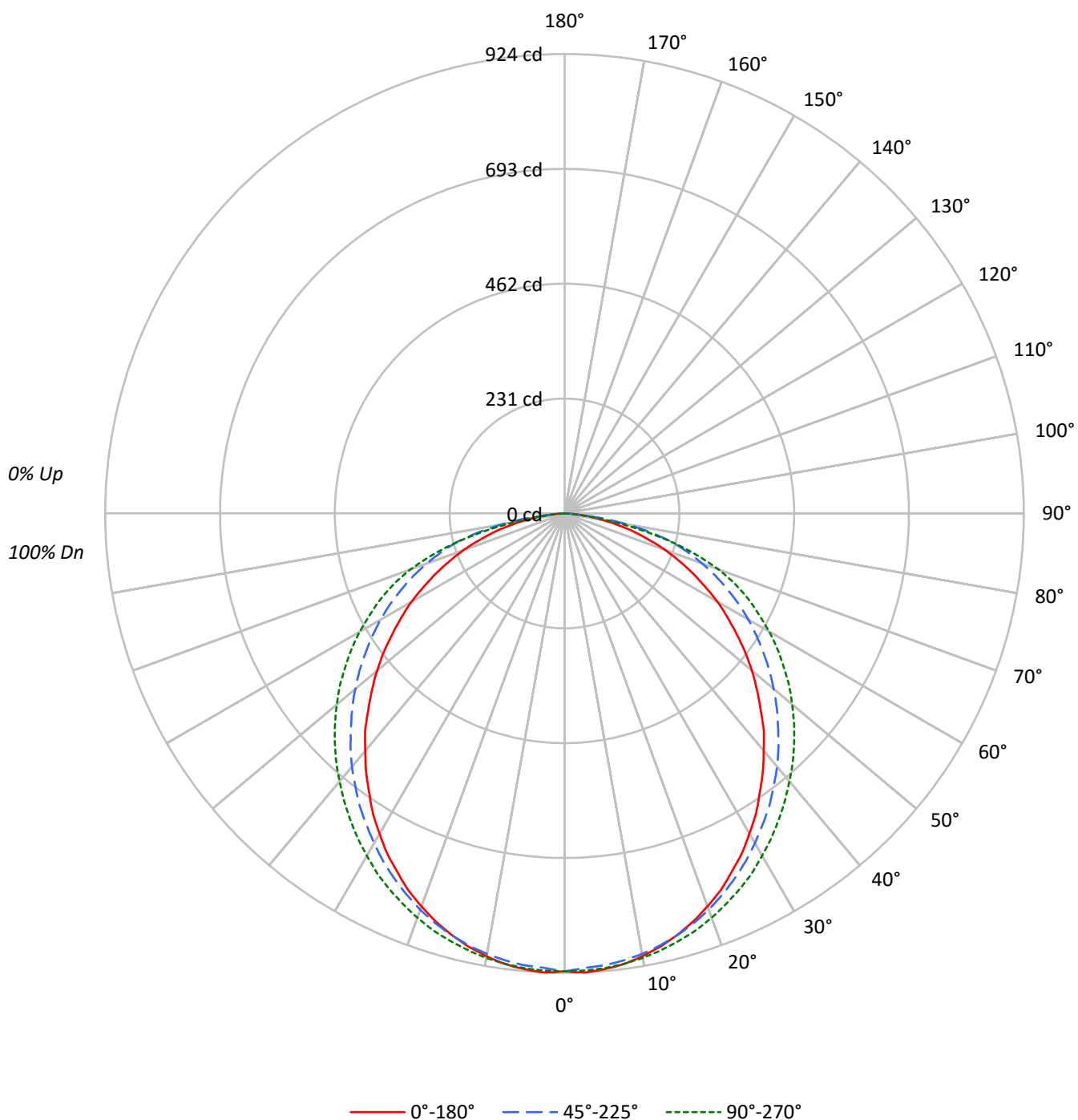
Input Watts (W): 23.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2478	2478	2478
5°	2486	2465	2479
10°	2471	2458	2480
15°	2444	2446	2479
20°	2408	2429	2478
25°	2363	2405	2476
30°	2311	2380	2471
35°	2250	2359	2469
40°	2190	2337	2473
45°	2123	2311	2486
50°	2061	2300	2503
55°	1983	2293	2525
60°	1912	2297	2560
65°	1814	2304	2600
70°	1703	2321	2598
75°	1543	2342	2349
80°	1266	2022	1672
85°	939	957	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.3
10°-20°	248.9	9.3
20°-30°	375.0	14.0
30°-40°	450.0	16.8
40°-50°	469.0	17.5
50°-60°	434.2	16.2
60°-70°	350.8	13.1
70°-80°	213.9	8.0
80°-90°	44.2	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°	711.0	26.6
0°-40°	1161.0	43.4
0°-60°	2064.1	77.2
0°-90°	2673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	920	918	912	919	918	87
15°	877	878	878	890	890	247
25°	796	800	810	830	834	367
35°	685	696	718	744	752	429
45°	558	575	607	641	653	431
55°	423	445	489	527	538	379
65°	285	313	362	398	408	282
75°	148	181	225	229	226	156
85°	30	45	31	17	12	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	920.9	920.9	920.9	920.9	920.9
2.5°	924.4	921.5	914.9	921.5	920.3
5°	920.3	917.9	912.5	919.1	917.9
7.5°	914.3	911.9	907.1	914.9	913.7
10°	904.2	903.0	899.4	908.3	907.7
12.5°	892.2	891.7	889.9	900.0	899.4
15°	877.3	877.9	877.9	889.9	889.9
17.5°	860.7	861.9	864.2	877.3	879.1
20°	841.0	843.4	848.1	863.0	865.4
22.5°	820.7	822.5	829.7	847.5	849.9
25°	795.7	800.5	810.0	830.3	833.8
27.5°	771.9	776.0	789.1	810.0	816.0
30°	743.8	750.4	765.9	788.5	795.1
32.5°	717.0	724.2	742.0	768.3	774.2
35°	684.8	695.6	718.2	744.4	751.6
37.5°	655.6	665.8	691.4	720.0	728.3
40°	623.4	636.0	665.2	695.6	703.9
42.5°	593.6	605.6	637.1	668.1	679.5
45°	557.9	574.6	607.3	641.3	653.2
47.5°	525.1	541.8	579.3	615.7	626.4
50°	492.3	510.2	549.5	587.1	597.8
52.5°	458.3	477.4	519.7	557.3	569.8
55°	422.6	444.6	488.7	526.9	538.2
57.5°	388.6	411.3	458.3	497.1	508.4
60°	355.2	378.5	426.8	463.7	475.6
62.5°	318.3	345.7	395.8	432.1	441.1
65°	284.9	312.9	361.8	398.1	408.3
67.5°	249.7	280.1	329.0	362.4	371.9
70°	216.4	247.9	295.0	326.0	330.2
72.5°	180.6	212.8	260.5	280.1	280.1
75°	148.4	181.2	225.3	228.9	225.9
77.5°	113.2	149.6	178.2	171.1	163.9
80°	81.7	117.4	130.5	117.4	107.9
82.5°	54.8	85.2	78.7	62.6	55.4
85°	30.4	45.3	31.0	17.3	12.5
87.5°	11.3	10.1	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)