

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: P307499

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CP125-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: P307499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-44-UNV-L82765-RDP-CP125-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB 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: 2710.0 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

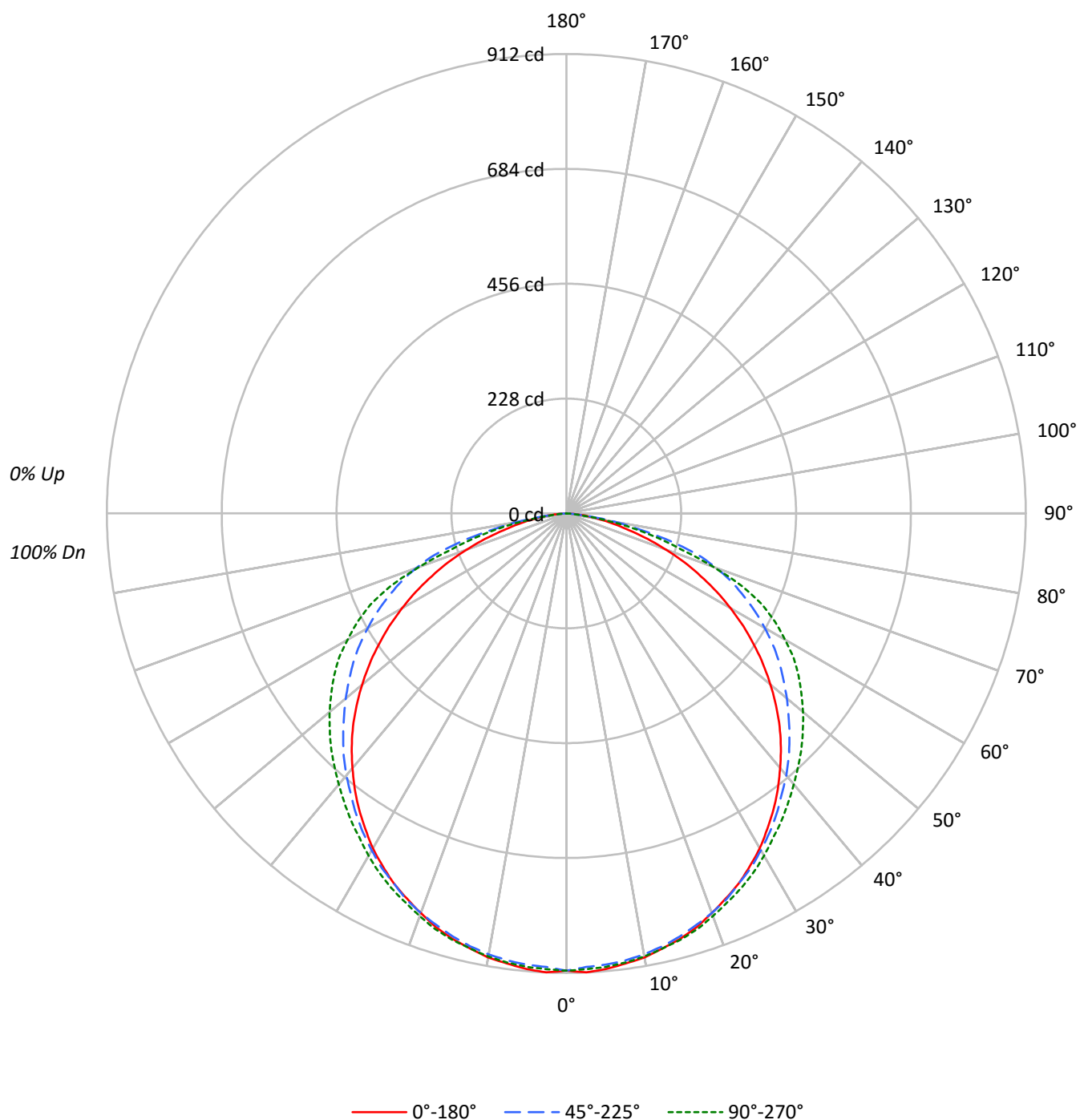
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		93	91	88		84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2442	2442	2442
5°	2452	2429	2440
10°	2446	2428	2440
15°	2434	2423	2440
20°	2418	2418	2436
25°	2406	2406	2437
30°	2386	2399	2439
35°	2356	2391	2446
40°	2319	2386	2467
45°	2279	2383	2512
50°	2214	2391	2569
55°	2134	2422	2640
60°	2027	2448	2699
65°	1873	2479	2735
70°	1665	2497	2447
75°	1342	2244	1958
80°	1049	1574	1278
85°	719	457	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.2
10°-20°	246.5	9.1
20°-30°	375.3	13.8
30°-40°	457.1	16.9
40°-50°	485.0	17.9
50°-60°	457.7	16.9
60°-70°	369.6	13.6
70°-80°	200.5	7.4
80°-90°	32.4	1.2
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°	707.7	26.1
0°-40°	1164.8	43.0
0°-60°	2107.5	77.8
0°-90°	2710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	908	906	899	906	903	86
15°	874	872	870	876	876	247
25°	810	808	810	819	821	373
35°	717	722	728	743	745	448
45°	599	607	626	650	660	461
55°	455	474	516	550	563	406
65°	294	330	389	421	430	291
75°	129	188	216	195	188	141
85°	23	25	15	13	11	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.6	907.6	907.6	907.6	907.6
2.5°	911.9	907.6	901.3	907.6	905.5
5°	907.6	905.5	899.2	905.5	903.4
7.5°	901.3	901.3	895.0	899.2	899.2
10°	895.0	892.8	888.6	895.0	892.8
12.5°	884.4	882.3	880.1	886.5	884.4
15°	873.8	871.7	869.6	875.9	875.9
17.5°	861.1	859.0	856.9	865.3	865.3
20°	844.2	844.2	844.2	852.6	850.5
22.5°	827.3	827.3	829.4	837.8	835.7
25°	810.3	808.2	810.3	818.8	820.9
27.5°	789.2	791.3	793.4	801.9	804.0
30°	768.0	770.1	772.2	782.8	784.9
32.5°	742.6	746.9	751.1	763.8	763.8
35°	717.2	721.5	727.8	742.6	744.7
37.5°	689.7	694.0	702.4	719.3	723.6
40°	660.1	666.5	679.1	696.1	702.4
42.5°	630.5	639.0	653.8	672.8	681.3
45°	598.8	607.2	626.3	649.5	660.1
47.5°	564.9	575.5	598.8	628.4	636.8
50°	528.9	543.7	571.2	603.0	613.6
52.5°	493.0	509.9	543.7	577.6	588.2
55°	454.9	473.9	516.2	550.1	562.8
57.5°	416.8	438.0	486.6	522.6	535.3
60°	376.6	402.0	454.9	490.8	501.4
62.5°	336.4	366.0	423.1	459.1	467.6
65°	294.1	330.1	389.3	421.0	429.5
67.5°	253.9	296.2	355.4	378.7	378.7
70°	211.6	258.1	317.4	323.7	311.0
72.5°	169.3	222.2	275.0	251.8	241.2
75°	129.1	188.3	215.8	194.6	188.3
77.5°	97.3	152.3	152.3	139.6	135.4
80°	67.7	116.4	101.6	88.9	82.5
82.5°	44.4	65.6	52.9	42.3	36.0
85°	23.3	25.4	14.8	12.7	10.6
87.5°	8.5	4.2	2.1	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)