

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: P307495

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-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: P307495
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-3500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 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: 2545.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

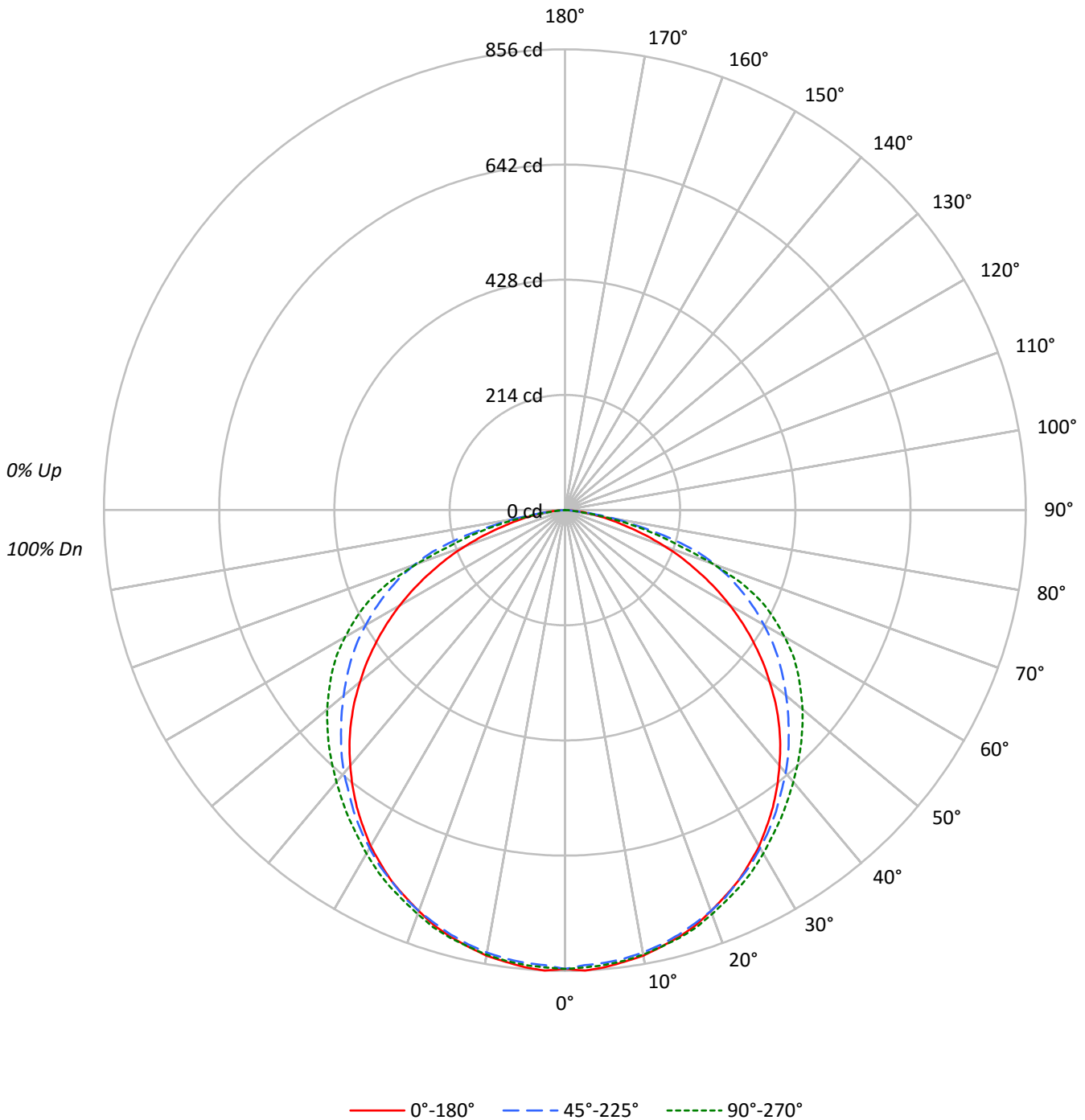
Input Watts (W): 38.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2294	2294	2294
5°	2303	2281	2292
10°	2297	2280	2291
15°	2286	2275	2292
20°	2270	2270	2287
25°	2260	2260	2289
30°	2241	2253	2290
35°	2213	2245	2298
40°	2178	2240	2317
45°	2140	2238	2359
50°	2079	2246	2412
55°	2004	2274	2479
60°	1904	2299	2534
65°	1759	2328	2568
70°	1563	2345	2298
75°	1260	2108	1838
80°	986	1478	1201
85°	676	429	306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.2
10°-20°	231.5	9.1
20°-30°	352.5	13.8
30°-40°	429.3	16.9
40°-50°	455.4	17.9
50°-60°	429.9	16.9
60°-70°	347.1	13.6
70°-80°	188.3	7.4
80°-90°	30.5	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°	664.6	26.1
0°-40°	1093.9	43.0
0°-60°	1979.2	77.8
0°-90°	2545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	852	850	844	850	848	81
15°	821	819	817	823	823	232
25°	761	759	761	769	771	350
35°	674	678	684	697	699	421
45°	562	570	588	610	620	433
55°	427	445	485	517	528	382
65°	276	310	366	395	403	274
75°	121	177	203	183	177	132
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	852.4	852.4	852.4	852.4	852.4
2.5°	856.4	852.4	846.4	852.4	850.4
5°	852.4	850.4	844.4	850.4	848.4
7.5°	846.4	846.4	840.5	844.4	844.4
10°	840.5	838.5	834.5	840.5	838.5
12.5°	830.5	828.5	826.6	832.5	830.5
15°	820.6	818.6	816.6	822.6	822.6
17.5°	808.7	806.7	804.7	812.6	812.6
20°	792.8	792.8	792.8	800.7	798.7
22.5°	776.9	776.9	778.9	786.8	784.8
25°	761.0	759.0	761.0	768.9	770.9
27.5°	741.1	743.1	745.1	753.0	755.0
30°	721.2	723.2	725.2	735.2	737.1
32.5°	697.4	701.4	705.4	717.3	717.3
35°	673.6	677.5	683.5	697.4	699.4
37.5°	647.7	651.7	659.7	675.6	679.5
40°	619.9	625.9	637.8	653.7	659.7
42.5°	592.1	600.0	614.0	631.8	639.8
45°	562.3	570.2	588.1	610.0	619.9
47.5°	530.5	540.4	562.3	590.1	598.1
50°	496.7	510.6	536.5	566.3	576.2
52.5°	463.0	478.8	510.6	542.4	552.4
55°	427.2	445.1	484.8	516.6	528.5
57.5°	391.4	411.3	457.0	490.8	502.7
60°	353.7	377.5	427.2	461.0	470.9
62.5°	315.9	343.7	397.4	431.2	439.1
65°	276.2	310.0	365.6	395.4	403.3
67.5°	238.4	278.2	333.8	355.7	355.7
70°	198.7	242.4	298.0	304.0	292.1
72.5°	159.0	208.6	258.3	236.4	226.5
75°	121.2	176.8	202.7	182.8	176.8
77.5°	91.4	143.1	143.1	131.1	127.2
80°	63.6	109.3	95.4	83.5	77.5
82.5°	41.7	61.6	49.7	39.7	33.8
85°	21.9	23.8	13.9	11.9	9.9
87.5°	7.9	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)