

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: P311975

Luminaire Tested: **14FCZ2-44-UNV-L83050-HRP-CP125-W2A-U-3000K**

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: P311975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)
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-L83050-HRP-CP125-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" POLYCARB SHEET
Light Source: (168) 3000K 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: 2911.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

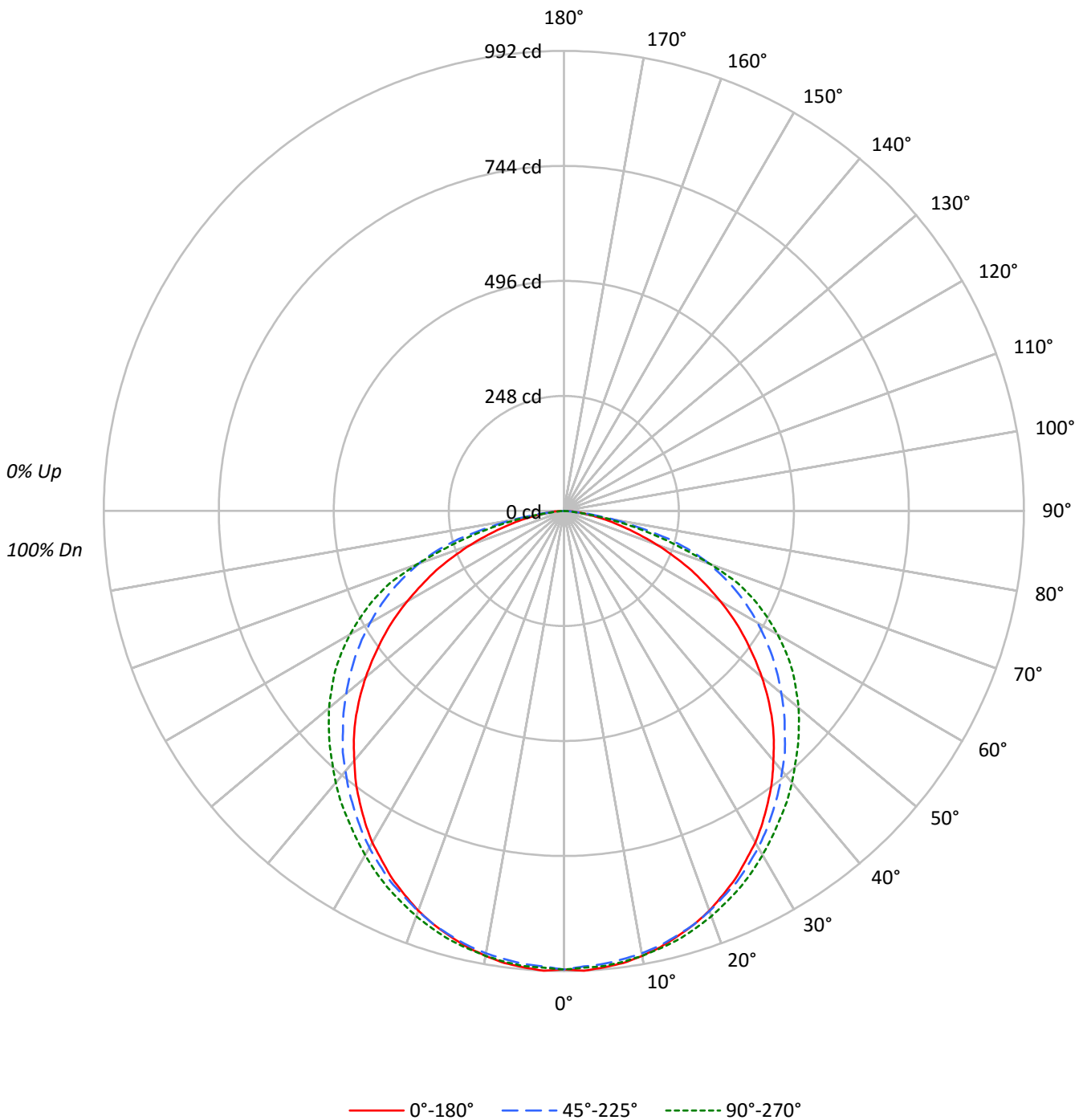
Input Watts (W): 38.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2660	2660	2660
5°	2668	2648	2660
10°	2661	2646	2661
15°	2644	2639	2665
20°	2627	2629	2663
25°	2598	2620	2664
30°	2566	2605	2662
35°	2520	2586	2667
40°	2470	2572	2688
45°	2418	2564	2717
50°	2334	2564	2767
55°	2233	2577	2826
60°	2098	2596	2862
65°	1935	2623	2879
70°	1685	2629	2651
75°	1389	2445	2142
80°	1093	1759	1433
85°	849	679	340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	3.2
10°-20°	268.6	9.2
20°-30°	407.8	14.0
30°-40°	494.2	17.0
40°-50°	520.7	17.9
50°-60°	486.1	16.7
60°-70°	388.5	13.3
70°-80°	213.8	7.3
80°-90°	37.7	1.3
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°	770.0	26.5
0°-40°	1264.1	43.4
0°-60°	2271.0	78.0
0°-90°	2911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	988	985	980	987	985	94
15°	949	949	947	957	957	268
25°	875	877	882	895	897	403
35°	767	774	787	807	812	480
45°	635	647	674	704	714	489
55°	476	500	549	588	602	425
65°	304	342	412	446	452	299
75°	134	191	235	211	206	144
85°	28	35	22	14	11	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.6	988.6	988.6	988.6	988.6
2.5°	992.3	989.5	983.1	988.6	985.8
5°	987.7	984.9	980.4	986.8	984.9
7.5°	983.1	979.4	974.9	982.2	980.4
10°	973.9	971.2	968.5	974.9	973.9
12.5°	963.0	962.0	959.3	966.6	965.7
15°	949.2	949.2	947.4	956.6	956.6
17.5°	934.6	933.7	934.6	944.7	943.7
20°	917.2	917.2	918.1	930.0	930.0
22.5°	896.1	897.1	899.8	914.4	913.5
25°	875.1	876.9	882.4	895.2	897.1
27.5°	849.5	854.0	860.4	876.0	877.8
30°	825.7	828.4	838.5	853.1	856.8
32.5°	797.3	802.8	813.8	830.2	834.8
35°	767.1	774.4	787.2	807.3	811.9
37.5°	736.9	743.3	760.7	781.7	790.0
40°	703.0	714.0	732.3	756.1	765.2
42.5°	670.0	681.0	705.7	730.5	738.7
45°	635.3	647.2	673.7	703.9	714.0
47.5°	596.8	610.5	644.4	676.5	687.4
50°	557.5	574.8	612.4	648.1	660.9
52.5°	516.3	538.2	581.3	618.8	630.7
55°	476.0	499.8	549.2	587.7	602.3
57.5°	434.8	460.4	516.3	560.2	568.4
60°	389.9	421.1	482.4	520.8	531.8
62.5°	346.0	381.7	447.6	484.2	493.4
65°	303.9	342.3	411.9	445.8	452.2
67.5°	258.1	303.9	372.6	403.7	405.5
70°	214.2	267.3	334.1	348.8	336.9
72.5°	171.2	227.9	289.3	277.4	267.3
75°	133.6	191.3	235.2	211.4	206.0
77.5°	98.9	156.5	168.4	155.6	145.5
80°	70.5	123.6	113.5	97.0	92.5
82.5°	48.5	77.8	62.2	48.5	42.1
85°	27.5	34.8	22.0	13.7	11.0
87.5°	11.9	8.2	4.6	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)