

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: P308254

Luminaire Tested: **22FCZ2-39HE-UNV-L82765-HRP-CA125-W2A-U-5000K**

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: P308254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-22)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 22FCZ2-39HE-UNV-L82765-HRP-CA125-W2A-U-5000K  
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" ACRYLIC 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**

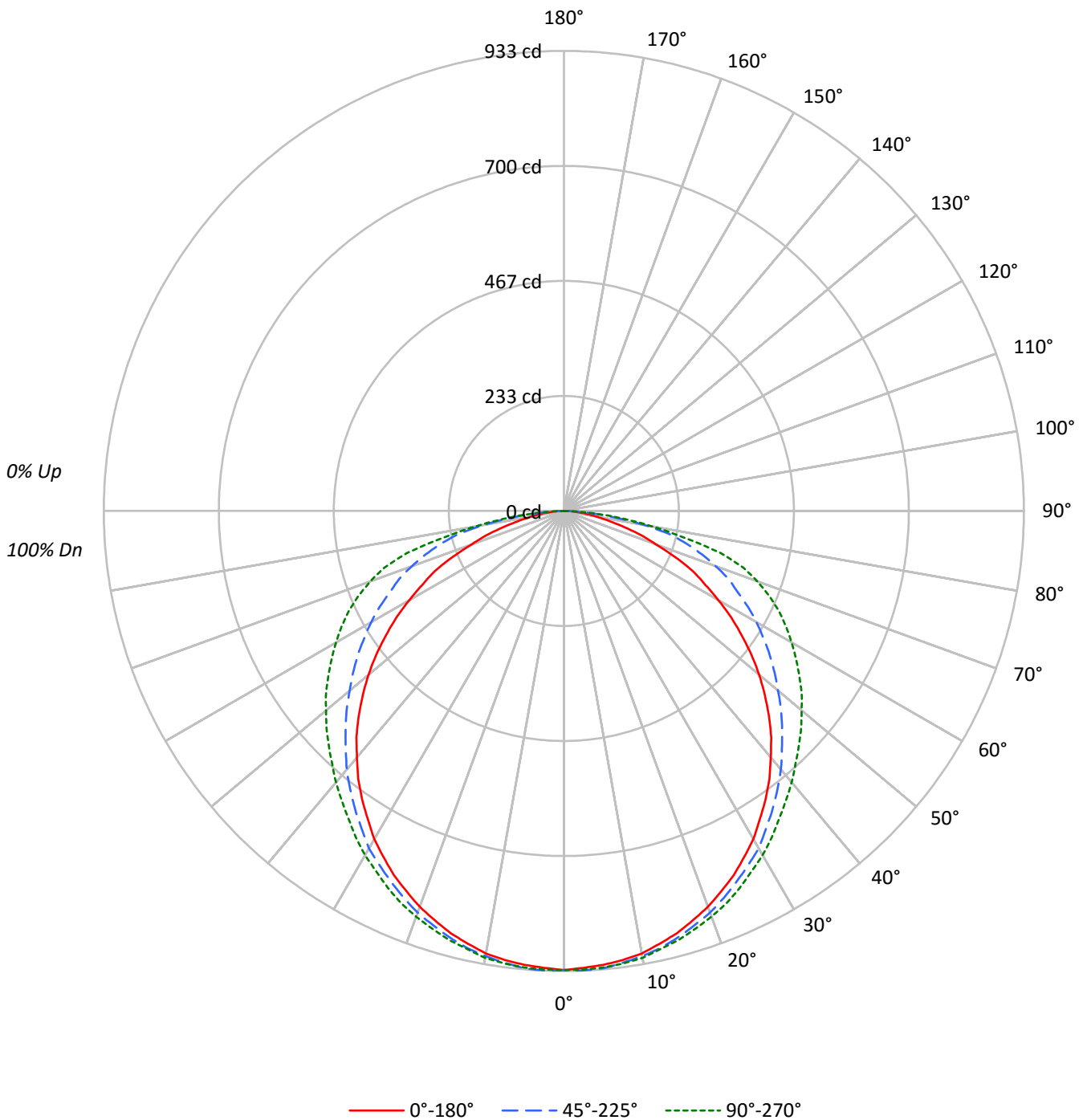
Lumens per Lamp: N/A  
Luminaire Lumens: 2826.9 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2505	2505	2505
5°	2495	2515	2510
10°	2490	2505	2514
15°	2469	2494	2509
20°	2446	2482	2507
25°	2420	2462	2504
30°	2388	2455	2505
35°	2343	2425	2502
40°	2293	2406	2525
45°	2240	2382	2565
50°	2165	2374	2635
55°	2067	2393	2736
60°	1948	2428	2870
65°	1840	2476	3066
70°	1571	2581	3283
75°	1316	2689	3411
80°	1077	2597	2847
85°	936	1927	2093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	3.1
10°-20°	252.4	8.9
20°-30°	382.5	13.5
30°-40°	461.8	16.3
40°-50°	485.3	17.2
50°-60°	456.6	16.2
60°-70°	380.7	13.5
70°-80°	252.2	8.9
80°-90°	67.2	2.4
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°	723.1	25.6
0°-40°	1184.9	41.9
0°-60°	2126.8	75.2
0°-90°	2826.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2826.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	924	926	931	931	929	88
15°	886	890	895	899	901	250
25°	815	820	829	840	844	375
35°	713	720	738	754	762	446
45°	588	597	626	658	674	453
55°	440	460	510	562	583	394
65°	289	314	389	453	482	281
75°	127	176	259	312	328	137
85°	30	46	62	68	68	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	930.9	930.9	930.9	930.9	930.9
2.5°	927.3	929.1	932.7	932.7	930.9
5°	923.8	925.5	930.9	930.9	929.1
7.5°	918.4	920.2	923.8	927.3	925.5
10°	911.3	913.1	916.6	920.2	920.2
12.5°	898.8	900.6	907.7	909.5	909.5
15°	886.3	889.9	895.2	898.8	900.6
17.5°	870.3	873.8	881.0	888.1	888.1
20°	854.2	857.8	866.7	873.8	875.6
22.5°	834.6	839.9	848.9	857.8	861.3
25°	815.0	820.3	829.2	839.9	843.5
27.5°	791.8	797.1	809.6	822.1	823.9
30°	768.6	774.0	790.0	800.7	806.1
32.5°	740.1	747.2	763.3	779.3	784.7
35°	713.3	720.5	738.3	754.3	761.5
37.5°	684.8	691.9	711.5	731.2	740.1
40°	652.7	661.6	684.8	706.2	718.7
42.5°	622.4	631.3	654.5	683.0	695.5
45°	588.5	597.4	625.9	658.0	674.1
47.5°	552.8	563.5	597.4	636.6	652.7
50°	517.2	529.6	567.1	611.7	629.5
52.5°	479.7	495.8	538.6	586.7	608.1
55°	440.5	460.1	510.0	561.7	583.1
57.5°	403.0	420.9	479.7	535.0	558.2
60°	362.0	385.2	451.2	508.2	533.2
62.5°	322.8	347.7	420.9	481.5	508.2
65°	288.9	313.9	388.8	453.0	481.5
67.5°	244.3	278.2	362.0	422.6	451.2
70°	199.7	246.1	328.1	390.5	417.3
72.5°	165.8	210.4	294.2	356.7	381.6
75°	126.6	176.5	258.6	312.1	328.1
77.5°	94.5	146.2	221.1	247.9	249.7
80°	69.5	112.3	167.6	176.5	183.7
82.5°	48.1	78.5	108.8	119.5	123.0
85°	30.3	46.4	62.4	67.8	67.8
87.5°	16.0	17.8	21.4	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)