

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: P308571

Luminaire Tested: **22FCZ2-44HE-UNV-L82765-RDP-CA125-W2A-U-5700K**

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: P308571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 22FCZ2-44HE-UNV-L82765-RDP-CA125-W2A-U-5700K  
Description: 2'X2' TROFFER LED MODULE, SMOOTH LENS WITH INSERT, 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**

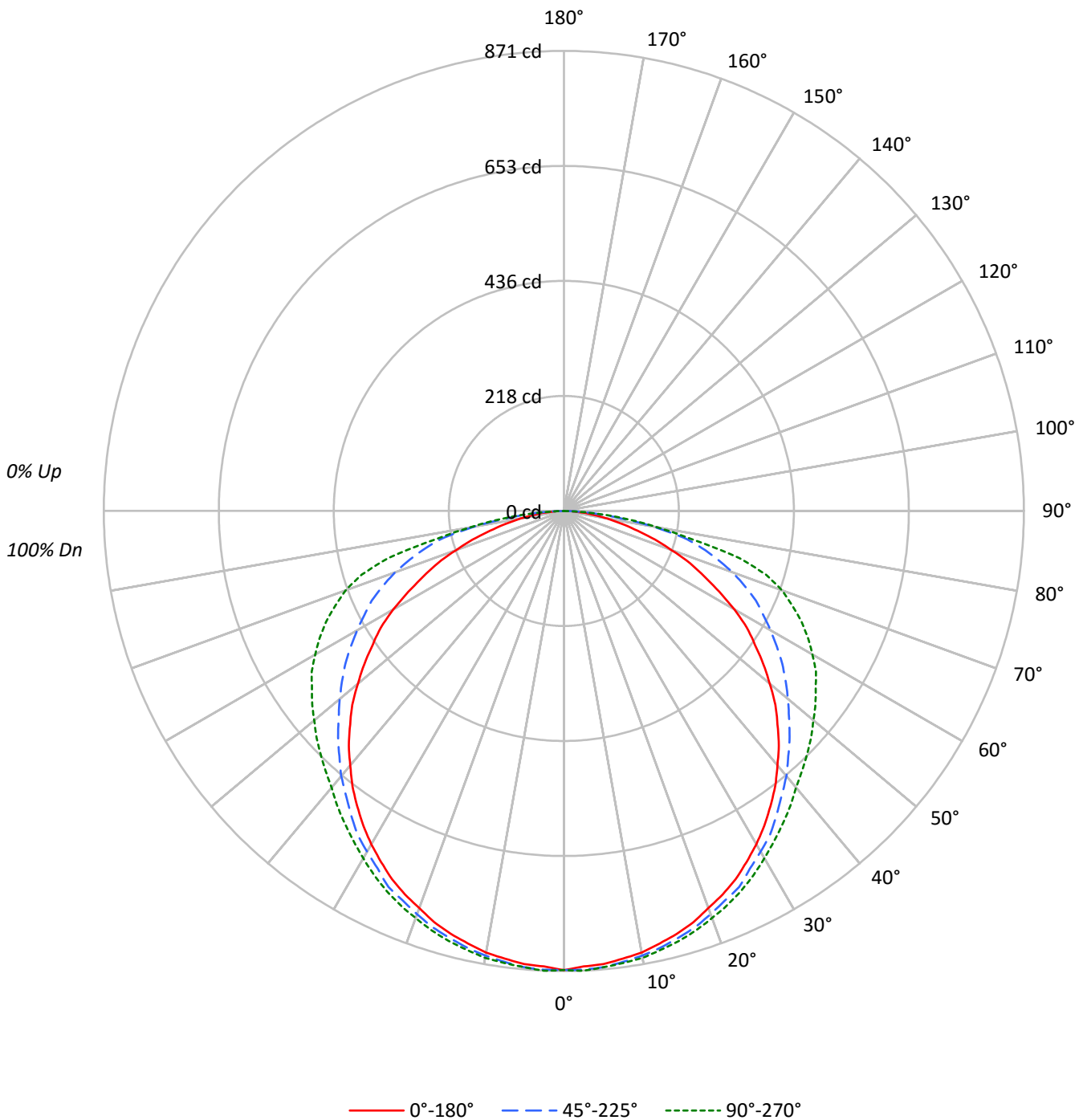
Lumens per Lamp: N/A  
Luminaire Lumens: 2767.0 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

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

	0°	45°	90°
0°	2339	2339	2339
5°	2326	2342	2342
10°	2319	2336	2347
15°	2308	2331	2348
20°	2291	2326	2349
25°	2284	2333	2357
30°	2264	2315	2359
35°	2240	2307	2374
40°	2210	2302	2402
45°	2177	2300	2479
50°	2130	2318	2582
55°	2072	2368	2731
60°	2005	2432	2925
65°	1866	2553	3163
70°	1714	2674	3460
75°	1502	2815	3577
80°	1294	2681	2808
85°	1130	1948	2137



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.2	3.0
10°-20°	236.1	8.5
20°-30°	360.2	13.0
30°-40°	439.8	15.9
40°-50°	470.2	17.0
50°-60°	453.8	16.4
60°-70°	390.7	14.1
70°-80°	264.3	9.6
80°-90°	69.8	2.5
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°	678.4	24.5
0°-40°	1118.2	40.4
0°-60°	2042.2	73.8
0°-90°	2767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2767.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	861	863	867	867	867	82
15°	828	830	837	841	843	234
25°	769	774	786	790	794	354
35°	682	688	702	716	723	427
45°	572	582	604	635	651	442
55°	442	456	505	556	582	396
65°	293	322	401	464	497	292
75°	144	191	271	326	344	155
85°	37	51	63	65	69	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	869.2	869.2	869.2	869.2	869.2
2.5°	863.1	865.1	869.2	869.2	871.2
5°	861.0	863.1	867.1	867.1	867.1
7.5°	854.9	856.9	861.0	863.1	863.1
10°	848.8	850.8	854.9	856.9	859.0
12.5°	838.6	840.7	846.8	850.8	850.8
15°	828.5	830.5	836.6	840.7	842.7
17.5°	816.2	820.3	826.4	830.5	832.5
20°	800.0	804.0	812.2	818.3	820.3
22.5°	785.7	789.8	797.9	804.0	808.1
25°	769.4	773.5	785.7	789.8	793.8
27.5°	749.1	753.1	763.3	771.5	777.6
30°	728.7	732.8	745.0	755.2	759.2
32.5°	706.3	712.4	726.7	734.8	740.9
35°	681.9	688.0	702.3	716.5	722.6
37.5°	657.5	663.6	677.8	696.1	704.3
40°	629.0	637.1	655.4	679.9	683.9
42.5°	602.5	612.7	629.0	657.5	667.6
45°	572.0	582.2	604.5	635.1	651.4
47.5°	543.5	553.7	578.1	614.7	635.1
50°	508.9	523.1	553.7	596.4	616.8
52.5°	476.3	488.5	529.2	576.0	600.5
55°	441.7	456.0	504.8	555.7	582.2
57.5°	411.2	423.4	478.3	535.3	565.9
60°	372.5	388.8	451.9	512.9	543.5
62.5°	331.8	356.2	425.4	488.5	521.1
65°	293.1	321.6	401.0	464.1	496.7
67.5°	258.5	289.0	370.5	437.6	468.2
70°	217.8	256.5	339.9	405.1	439.7
72.5°	181.2	223.9	305.3	370.5	401.0
75°	144.5	191.3	270.7	325.7	344.0
77.5°	112.0	156.7	232.0	248.3	250.4
80°	83.5	124.2	173.0	175.1	181.2
82.5°	57.0	87.5	112.0	122.1	124.2
85°	36.6	50.9	63.1	65.1	69.2
87.5°	16.3	18.3	22.4	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)