

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: P308304

Luminaire Tested: **22FCZ2-44HE-UNV-L82765-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: P308304  
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: 22FCZ2-44HE-UNV-L82765-HRP-CP125-W2A-U-3000K  
Description: 2'X2' 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**

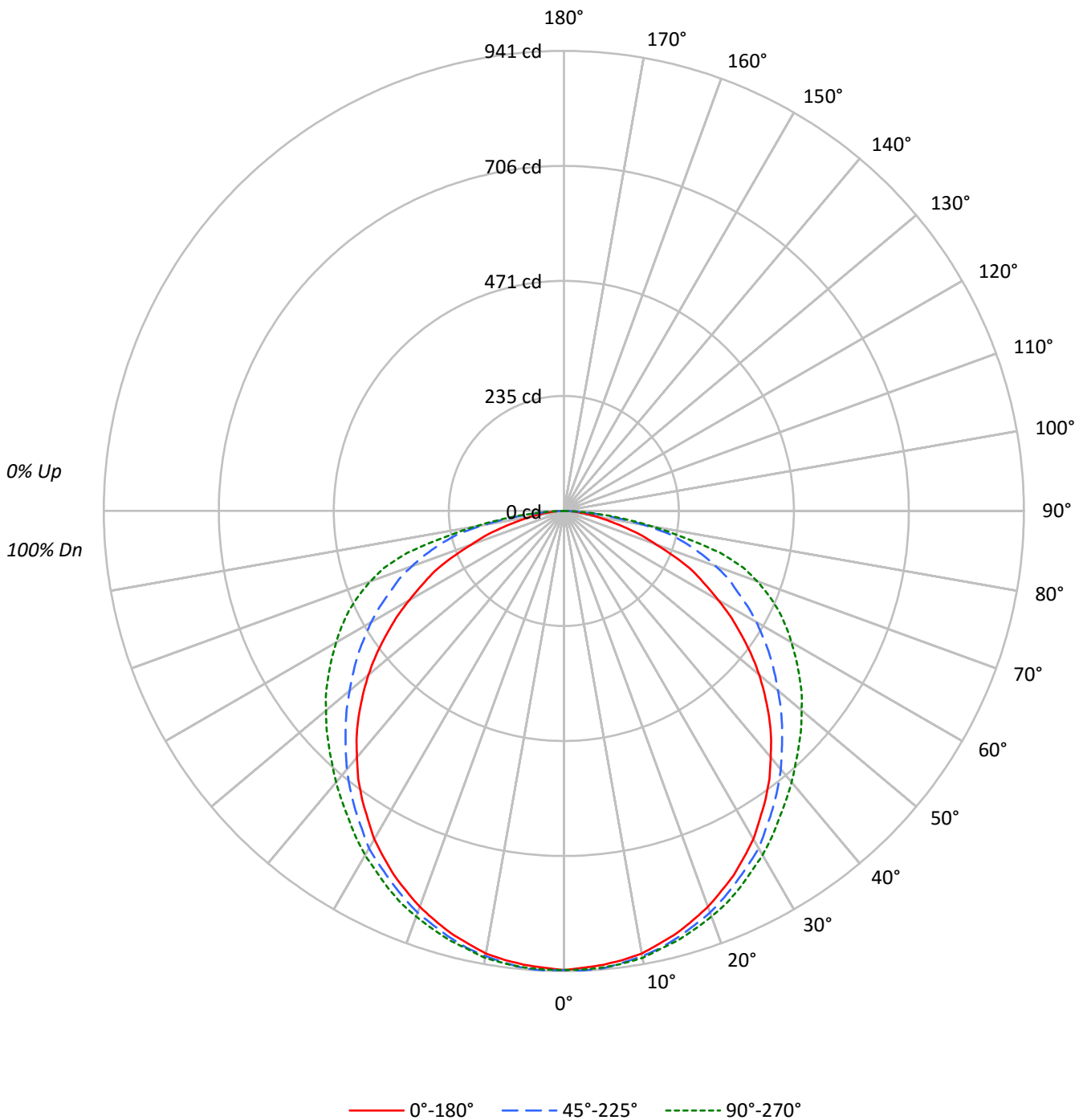
Lumens per Lamp: N/A  
Luminaire Lumens: 2851.0 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 36.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	2526	2526	2526
5°	2516	2536	2531
10°	2511	2526	2536
15°	2490	2515	2530
20°	2467	2503	2529
25°	2440	2483	2526
30°	2408	2476	2526
35°	2363	2446	2523
40°	2312	2426	2546
45°	2259	2402	2587
50°	2184	2394	2658
55°	2084	2413	2759
60°	1965	2449	2894
65°	1855	2497	3092
70°	1585	2603	3311
75°	1328	2712	3440
80°	1086	2620	2870
85°	945	1942	2109



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.0	3.1
10°-20°	254.5	8.9
20°-30°	385.7	13.5
30°-40°	465.8	16.3
40°-50°	489.4	17.2
50°-60°	460.5	16.2
60°-70°	383.9	13.5
70°-80°	254.4	8.9
80°-90°	67.8	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°	729.2	25.6
0°-40°	1195.0	41.9
0°-60°	2144.9	75.2
0°-90°	2851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2851.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	932	933	939	939	937	89
15°	894	897	903	906	908	252
25°	822	827	836	847	851	378
35°	719	727	745	761	768	450
45°	594	602	631	664	680	457
55°	444	464	514	566	588	397
65°	291	316	392	457	486	284
75°	128	178	261	315	331	139
85°	31	47	63	68	68	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	938.8	938.8	938.8	938.8	938.8
2.5°	935.2	937.0	940.6	940.6	938.8
5°	931.6	933.4	938.8	938.8	937.0
7.5°	926.2	928.0	931.6	935.2	933.4
10°	919.0	920.8	924.4	928.0	928.0
12.5°	906.4	908.2	915.4	917.2	917.2
15°	893.8	897.4	902.8	906.4	908.2
17.5°	877.7	881.3	888.4	895.6	895.6
20°	861.5	865.1	874.1	881.3	883.0
22.5°	841.7	847.1	856.1	865.1	868.7
25°	821.9	827.3	836.3	847.1	850.7
27.5°	798.5	803.9	816.5	829.1	830.9
30°	775.1	780.5	796.7	807.5	812.9
32.5°	746.4	753.6	769.7	785.9	791.3
35°	719.4	726.6	744.6	760.8	767.9
37.5°	690.6	697.8	717.6	737.4	746.4
40°	658.2	667.2	690.6	712.2	724.8
42.5°	627.7	636.7	660.0	688.8	701.4
45°	593.5	602.5	631.3	663.6	679.8
47.5°	557.5	568.3	602.5	642.1	658.2
50°	521.6	534.1	571.9	616.9	634.9
52.5°	483.8	500.0	543.1	591.7	613.3
55°	444.2	464.0	514.4	566.5	588.1
57.5°	406.5	424.4	483.8	539.5	562.9
60°	365.1	388.5	455.0	512.6	537.7
62.5°	325.5	350.7	424.4	485.6	512.6
65°	291.4	316.5	392.1	456.8	485.6
67.5°	246.4	280.6	365.1	426.2	455.0
70°	201.4	248.2	330.9	393.9	420.8
72.5°	167.3	212.2	296.7	359.7	384.9
75°	127.7	178.0	260.8	314.7	330.9
77.5°	95.3	147.5	223.0	250.0	251.8
80°	70.1	113.3	169.1	178.0	185.2
82.5°	48.6	79.1	109.7	120.5	124.1
85°	30.6	46.8	62.9	68.3	68.3
87.5°	16.2	18.0	21.6	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)