

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: P308305

Luminaire Tested: **22FCZ2-44HE-UNV-L82765-HRP-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: P308305  
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-3500K  
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**

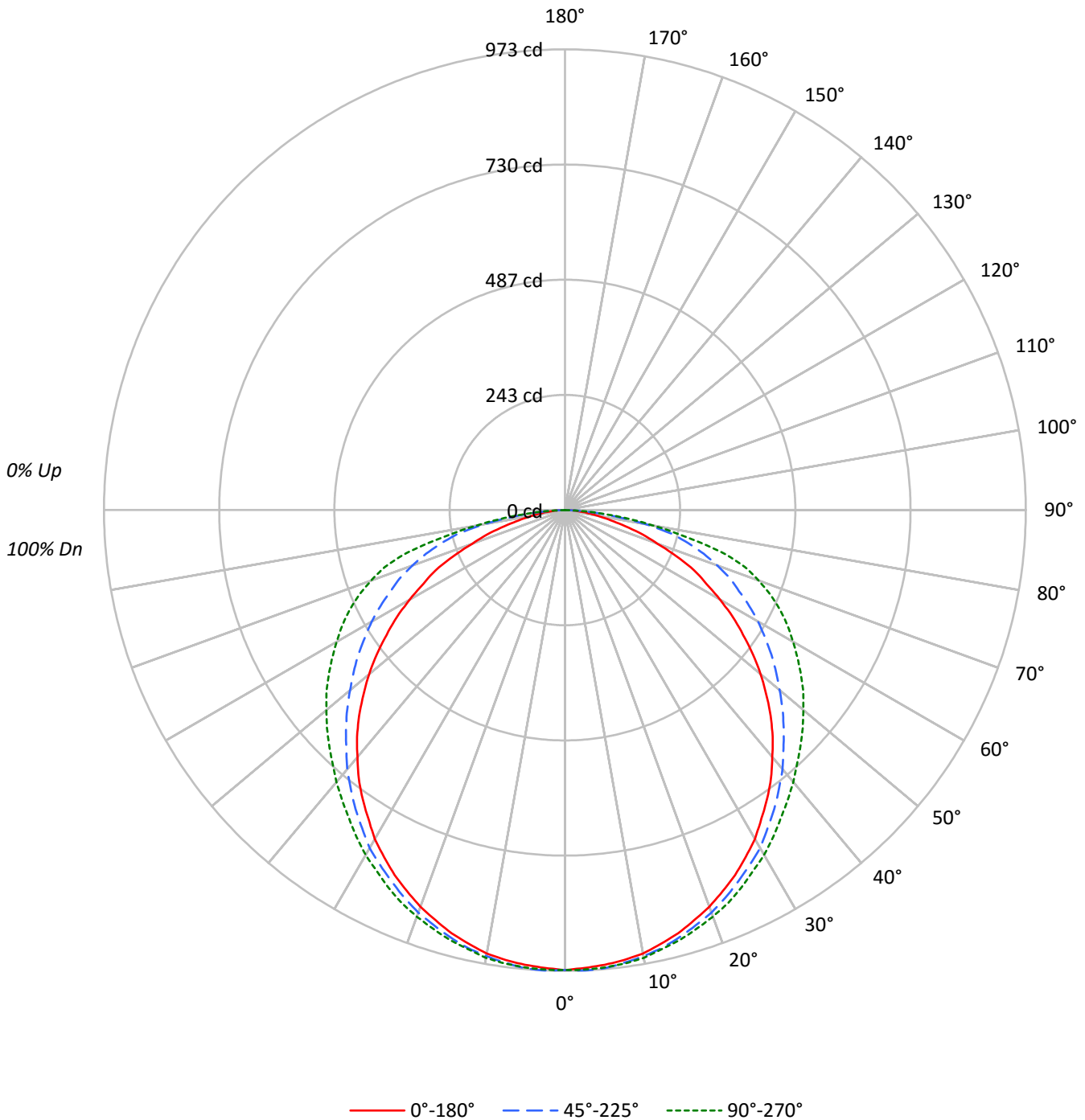
Lumens per Lamp: N/A  
Luminaire Lumens: 2950.0 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	2614	2614	2614
5°	2604	2624	2619
10°	2598	2614	2624
15°	2577	2603	2618
20°	2553	2590	2617
25°	2525	2569	2613
30°	2492	2562	2614
35°	2445	2531	2610
40°	2393	2510	2635
45°	2337	2486	2677
50°	2259	2478	2750
55°	2156	2497	2855
60°	2033	2534	2995
65°	1920	2583	3199
70°	1640	2694	3426
75°	1373	2805	3560
80°	1125	2710	2971
85°	976	2010	2183



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.1	3.1
10°-20°	263.4	8.9
20°-30°	399.1	13.5
30°-40°	481.9	16.3
40°-50°	506.4	17.2
50°-60°	476.5	16.2
60°-70°	397.3	13.5
70°-80°	263.2	8.9
80°-90°	70.1	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°	754.5	25.6
0°-40°	1236.5	41.9
0°-60°	2219.3	75.2
0°-90°	2950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2950.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	964	966	971	971	970	92
15°	925	929	934	938	940	261
25°	850	856	865	876	880	392
35°	744	752	770	787	795	465
45°	614	623	653	687	703	473
55°	460	480	532	586	608	411
65°	302	328	406	473	502	293
75°	132	184	270	326	342	143
85°	32	48	65	71	71	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	971.4	971.4	971.4	971.4	971.4
2.5°	967.7	969.5	973.3	973.3	971.4
5°	964.0	965.8	971.4	971.4	969.5
7.5°	958.4	960.2	964.0	967.7	965.8
10°	950.9	952.8	956.5	960.2	960.2
12.5°	937.9	939.8	947.2	949.1	949.1
15°	924.9	928.6	934.2	937.9	939.8
17.5°	908.1	911.9	919.3	926.7	926.7
20°	891.4	895.1	904.4	911.9	913.7
22.5°	870.9	876.5	885.8	895.1	898.8
25°	850.4	856.0	865.3	876.5	880.2
27.5°	826.2	831.8	844.9	857.9	859.7
30°	802.1	807.6	824.4	835.6	841.1
32.5°	772.3	779.7	796.5	813.2	818.8
35°	744.4	751.8	770.4	787.2	794.6
37.5°	714.6	722.0	742.5	763.0	772.3
40°	681.1	690.4	714.6	736.9	750.0
42.5°	649.5	658.8	683.0	712.7	725.8
45°	614.1	623.4	653.2	686.7	703.4
47.5°	576.9	588.1	623.4	664.3	681.1
50°	539.7	552.7	591.8	638.3	656.9
52.5°	500.6	517.3	562.0	612.2	634.6
55°	459.6	480.1	532.2	586.2	608.5
57.5°	420.6	439.2	500.6	558.3	582.5
60°	377.8	402.0	470.8	530.4	556.4
62.5°	336.8	362.9	439.2	502.4	530.4
65°	301.5	327.5	405.7	472.7	502.4
67.5°	254.9	290.3	377.8	441.0	470.8
70°	208.4	256.8	342.4	407.5	435.5
72.5°	173.1	219.6	307.1	372.2	398.2
75°	132.1	184.2	269.8	325.7	342.4
77.5°	98.6	152.6	230.8	258.7	260.5
80°	72.6	117.2	174.9	184.2	191.7
82.5°	50.2	81.9	113.5	124.7	128.4
85°	31.6	48.4	65.1	70.7	70.7
87.5°	16.7	18.6	22.3	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)