

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: P308308

Luminaire Tested: **22FCZ2-44HE-UNV-L82765-HRP-CP125-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: P308308  
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-5000K  
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**

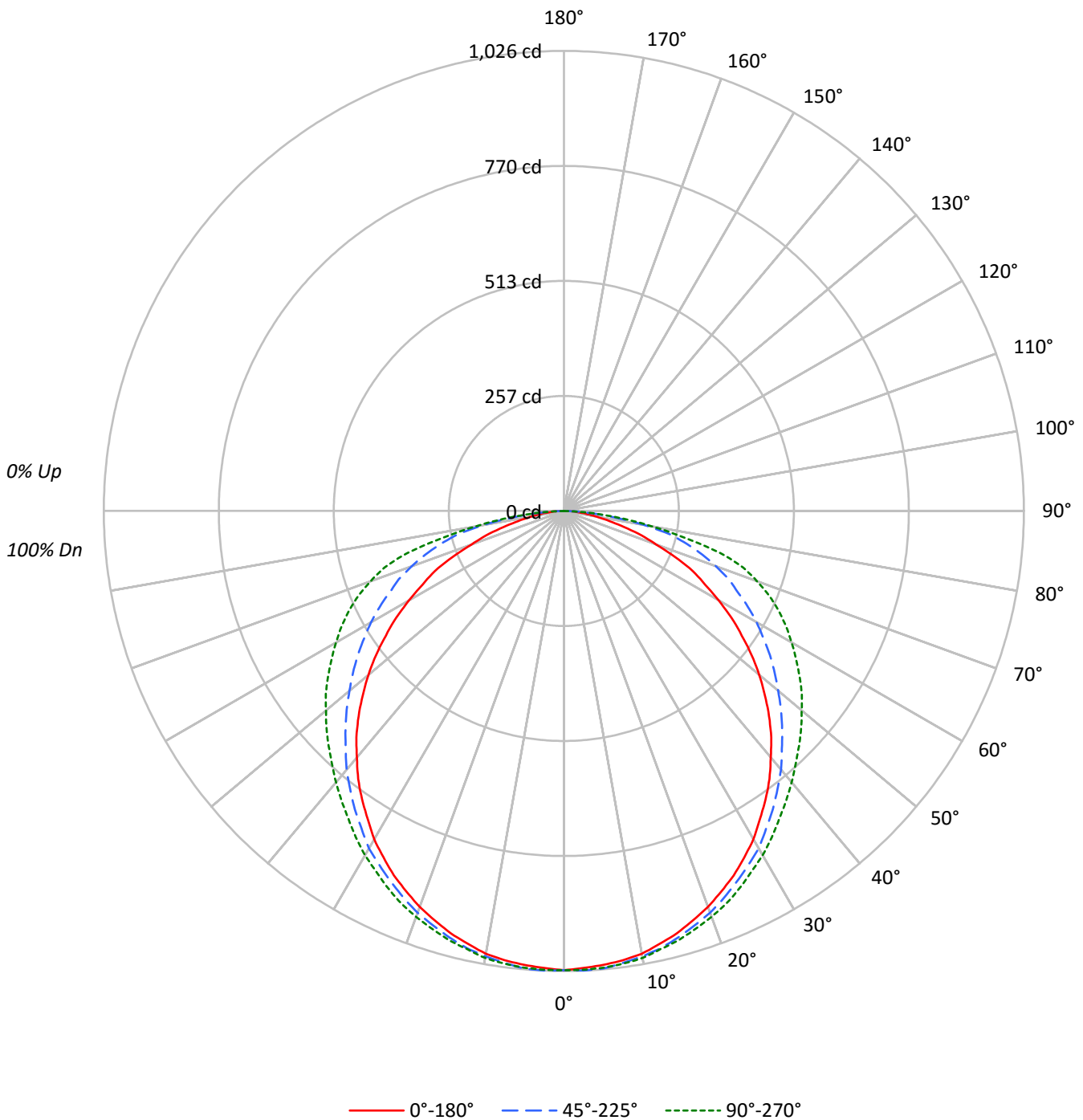
Lumens per Lamp: N/A  
Luminaire Lumens: 3110.0 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.1  
Input Voltage (V): NR  
Input Current (A<sub>in</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	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°	2756	2756	2756
5°	2745	2766	2761
10°	2739	2755	2766
15°	2716	2744	2760
20°	2691	2731	2759
25°	2662	2709	2755
30°	2628	2701	2756
35°	2578	2668	2752
40°	2522	2647	2777
45°	2464	2621	2822
50°	2382	2612	2899
55°	2274	2632	3010
60°	2144	2671	3157
65°	2024	2723	3373
70°	1729	2840	3612
75°	1448	2958	3753
80°	1185	2858	3132
85°	1031	2121	2303



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.1	3.1
10°-20°	277.6	8.9
20°-30°	420.8	13.5
30°-40°	508.1	16.3
40°-50°	533.9	17.2
50°-60°	502.3	16.2
60°-70°	418.8	13.5
70°-80°	277.5	8.9
80°-90°	74.0	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°	795.5	25.6
0°-40°	1303.5	41.9
0°-60°	2339.7	75.2
0°-90°	3110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3110.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1016	1018	1024	1024	1022	97
15°	975	979	985	989	991	275
25°	897	902	912	924	928	413
35°	785	793	812	830	838	491
45°	647	657	689	724	742	499
55°	485	506	561	618	642	434
65°	318	345	428	498	530	309
75°	139	194	284	343	361	151
85°	33	51	69	75	75	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1024.1	1024.1	1024.1	1024.1	1024.1
2.5°	1020.2	1022.1	1026.0	1026.0	1024.1
5°	1016.2	1018.2	1024.1	1024.1	1022.1
7.5°	1010.4	1012.3	1016.2	1020.2	1018.2
10°	1002.5	1004.5	1008.4	1012.3	1012.3
12.5°	988.8	990.7	998.6	1000.5	1000.5
15°	975.0	979.0	984.9	988.8	990.7
17.5°	957.4	961.3	969.2	977.0	977.0
20°	939.7	943.7	953.5	961.3	963.3
22.5°	918.1	924.0	933.8	943.7	947.6
25°	896.6	902.5	912.3	924.0	928.0
27.5°	871.1	876.9	890.7	904.4	906.4
30°	845.6	851.4	869.1	880.9	886.8
32.5°	814.2	822.0	839.7	857.3	863.2
35°	784.7	792.6	812.2	829.9	837.7
37.5°	753.4	761.2	782.8	804.4	814.2
40°	718.0	727.8	753.4	776.9	790.6
42.5°	684.7	694.5	720.0	751.4	765.1
45°	647.4	657.2	688.6	723.9	741.6
47.5°	608.2	619.9	657.2	700.4	718.0
50°	568.9	582.7	623.9	672.9	692.5
52.5°	527.7	545.4	592.5	645.5	669.0
55°	484.6	506.2	561.1	618.0	641.5
57.5°	443.4	463.0	527.7	588.6	614.1
60°	398.3	423.8	496.3	559.1	586.6
62.5°	355.1	382.6	463.0	529.7	559.1
65°	317.8	345.3	427.7	498.3	529.7
67.5°	268.8	306.0	398.3	465.0	496.3
70°	219.7	270.7	361.0	429.6	459.1
72.5°	182.5	231.5	323.7	392.4	419.8
75°	139.3	194.2	284.5	343.3	361.0
77.5°	104.0	160.9	243.3	272.7	274.7
80°	76.5	123.6	184.4	194.2	202.1
82.5°	53.0	86.3	119.7	131.4	135.4
85°	33.4	51.0	68.7	74.6	74.6
87.5°	17.7	19.6	23.5	23.5	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)