

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: P308306

Luminaire Tested: **22FCZ2-44HE-UNV-L82765-HRP-CP125-W2A-U-4000K**

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: P308306  
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-4000K  
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**

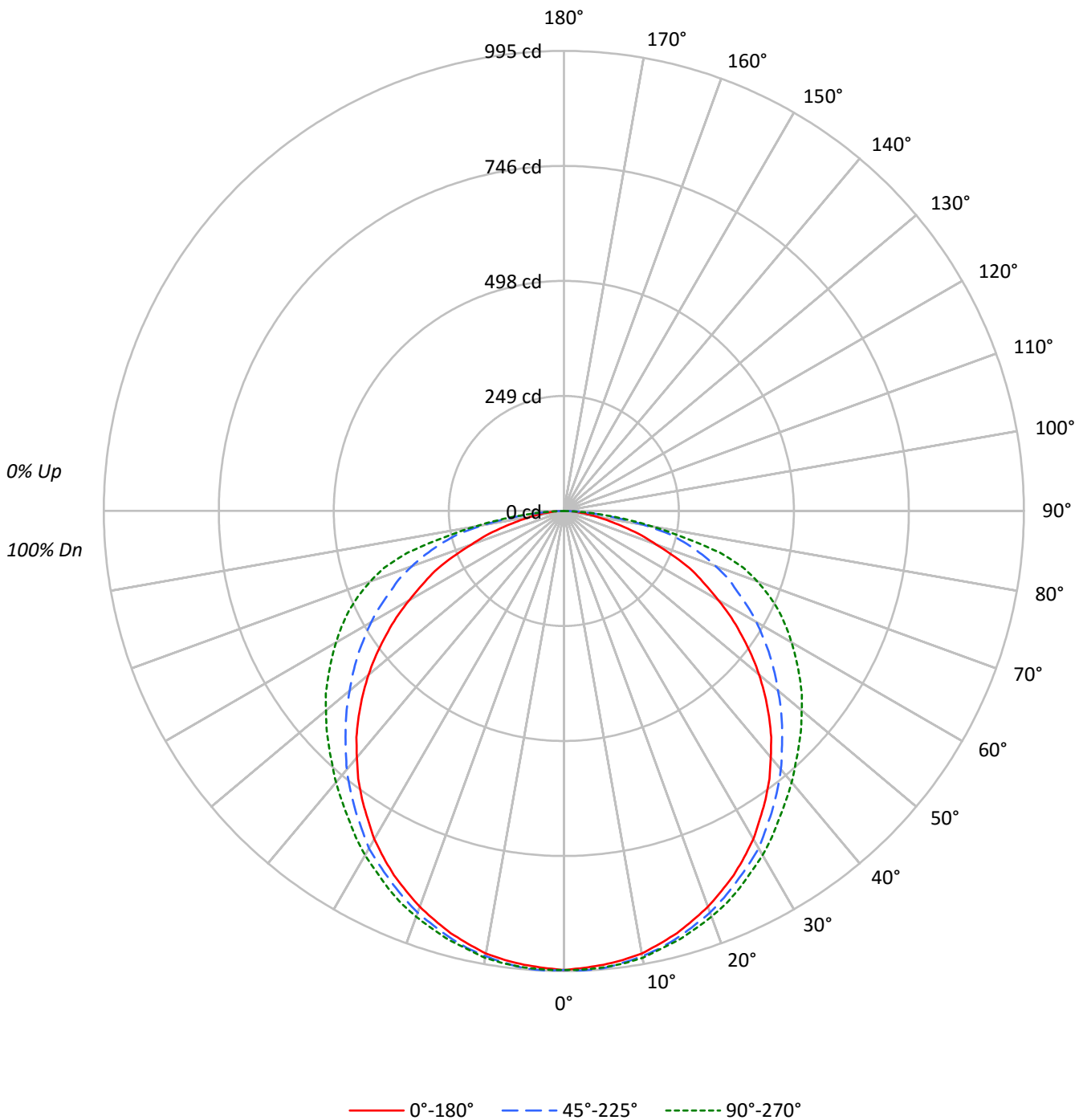
Lumens per Lamp: N/A  
Luminaire Lumens: 3015.0 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	2672	2672	2672
5°	2661	2682	2677
10°	2656	2671	2682
15°	2634	2660	2676
20°	2609	2647	2674
25°	2581	2626	2671
30°	2547	2618	2671
35°	2499	2587	2668
40°	2445	2565	2693
45°	2388	2541	2736
50°	2309	2532	2811
55°	2204	2552	2918
60°	2078	2590	3061
65°	1962	2640	3270
70°	1676	2754	3502
75°	1404	2868	3639
80°	1150	2771	3036
85°	997	2056	2232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	3.1
10°-20°	269.2	8.9
20°-30°	407.9	13.5
30°-40°	492.5	16.3
40°-50°	517.6	17.2
50°-60°	487.0	16.2
60°-70°	406.0	13.5
70°-80°	269.0	8.9
80°-90°	71.7	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°	771.2	25.6
0°-40°	1263.7	41.9
0°-60°	2268.2	75.2
0°-90°	3015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3015.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	985	987	993	993	991	94
15°	945	949	955	959	960	267
25°	869	875	884	896	900	400
35°	761	768	787	804	812	476
45°	628	637	668	702	719	483
55°	470	491	544	599	622	420
65°	308	335	415	483	514	300
75°	135	188	276	333	350	147
85°	32	50	67	72	72	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	992.8	992.8	992.8	992.8	992.8
2.5°	989.0	990.9	994.7	994.7	992.8
5°	985.2	987.1	992.8	992.8	990.9
7.5°	979.5	981.4	985.2	989.0	987.1
10°	971.9	973.8	977.6	981.4	981.4
12.5°	958.6	960.5	968.1	970.0	970.0
15°	945.3	949.1	954.8	958.6	960.5
17.5°	928.1	931.9	939.6	947.2	947.2
20°	911.0	914.8	924.3	931.9	933.8
22.5°	890.1	895.8	905.3	914.8	918.6
25°	869.2	874.9	884.4	895.8	899.6
27.5°	844.5	850.2	863.5	876.8	878.7
30°	819.7	825.4	842.6	854.0	859.7
32.5°	789.3	796.9	814.0	831.1	836.8
35°	760.8	768.4	787.4	804.5	812.1
37.5°	730.3	737.9	758.9	779.8	789.3
40°	696.1	705.6	730.3	753.2	766.5
42.5°	663.8	673.3	698.0	728.4	741.8
45°	627.6	637.1	667.6	701.8	718.9
47.5°	589.6	601.0	637.1	679.0	696.1
50°	551.6	564.9	604.8	652.4	671.4
52.5°	511.6	528.7	574.4	625.7	648.6
55°	469.8	490.7	544.0	599.1	621.9
57.5°	429.8	448.9	511.6	570.6	595.3
60°	386.1	410.8	481.2	542.0	568.7
62.5°	344.2	370.9	448.9	513.5	542.0
65°	308.1	334.7	414.6	483.1	513.5
67.5°	260.6	296.7	386.1	450.8	481.2
70°	213.0	262.5	350.0	416.5	445.1
72.5°	176.9	224.4	313.8	380.4	407.0
75°	135.0	188.3	275.8	332.8	350.0
77.5°	100.8	156.0	235.8	264.4	266.3
80°	74.2	119.8	178.8	188.3	195.9
82.5°	51.4	83.7	116.0	127.4	131.2
85°	32.3	49.5	66.6	72.3	72.3
87.5°	17.1	19.0	22.8	22.8	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)