

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: P307217

Luminaire Tested: **14FCZ2-44-UNV-L82765-HRP-CA125-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: P307217  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-44-UNV-L82765-HRP-CA125-W2A-U-4000K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" ACRYLIC SHEET  
Light Source: (168) 4000K 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**

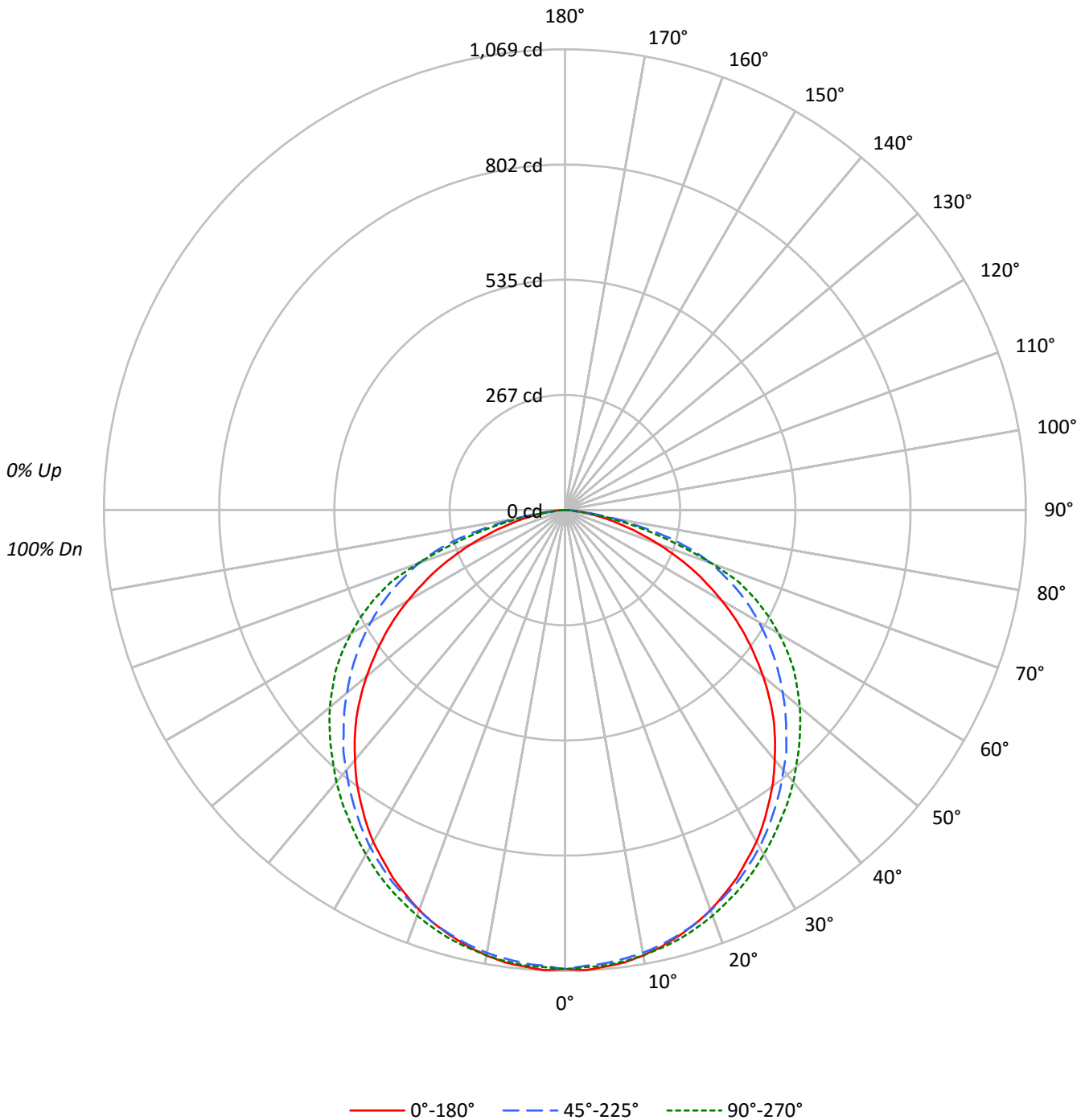
Lumens per Lamp: N/A  
Luminaire Lumens: 3135.0 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	2865	2865	2865
5°	2873	2852	2865
10°	2866	2850	2866
15°	2848	2842	2870
20°	2829	2832	2868
25°	2798	2822	2869
30°	2763	2806	2867
35°	2714	2785	2872
40°	2660	2770	2895
45°	2603	2761	2926
50°	2514	2761	2979
55°	2405	2775	3043
60°	2260	2796	3082
65°	2084	2825	3101
70°	1815	2831	2854
75°	1496	2635	2306
80°	1176	1894	1543
85°	914	732	364



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.8	3.2
10°-20°	289.2	9.2
20°-30°	439.2	14.0
30°-40°	532.2	17.0
40°-50°	560.8	17.9
50°-60°	523.5	16.7
60°-70°	418.4	13.3
70°-80°	230.2	7.3
80°-90°	40.6	1.3
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°	829.2	26.5
0°-40°	1361.4	43.4
0°-60°	2445.7	78.0
0°-90°	3135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3135.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1064	1061	1056	1063	1061	101
15°	1022	1022	1020	1030	1030	289
25°	942	944	950	964	966	434
35°	826	834	848	870	874	517
45°	684	697	726	758	769	526
55°	513	538	592	633	649	458
65°	327	369	444	480	487	322
75°	144	206	253	228	222	155
85°	30	38	24	15	12	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1064.7	1064.7	1064.7	1064.7	1064.7
2.5°	1068.6	1065.6	1058.7	1064.7	1061.7
5°	1063.7	1060.7	1055.8	1062.7	1060.7
7.5°	1058.7	1054.8	1049.9	1057.8	1055.8
10°	1048.9	1045.9	1043.0	1049.9	1048.9
12.5°	1037.1	1036.1	1033.1	1041.0	1040.0
15°	1022.3	1022.3	1020.3	1030.2	1030.2
17.5°	1006.5	1005.5	1006.5	1017.3	1016.4
20°	987.8	987.8	988.8	1001.6	1001.6
22.5°	965.1	966.1	969.0	984.8	983.8
25°	942.4	944.4	950.3	964.1	966.1
27.5°	914.8	919.7	926.7	943.4	945.4
30°	889.2	892.1	903.0	918.8	922.7
32.5°	858.6	864.5	876.4	894.1	899.0
35°	826.1	834.0	847.8	869.5	874.4
37.5°	793.6	800.5	819.2	841.9	850.7
40°	757.1	768.9	788.6	814.3	824.1
42.5°	721.6	733.4	760.1	786.7	795.5
45°	684.1	697.0	725.5	758.1	768.9
47.5°	642.7	657.5	694.0	728.5	740.3
50°	600.4	619.1	659.5	697.9	711.7
52.5°	556.0	579.6	626.0	666.4	679.2
55°	512.6	538.2	591.5	632.9	648.7
57.5°	468.3	495.9	556.0	603.3	612.2
60°	419.9	453.5	519.5	560.9	572.7
62.5°	372.6	411.1	482.1	521.5	531.3
65°	327.3	368.7	443.6	480.1	487.0
67.5°	278.0	327.3	401.2	434.7	436.7
70°	230.7	287.9	359.8	375.6	362.8
72.5°	184.3	245.5	311.5	298.7	287.9
75°	143.9	206.0	253.4	227.7	221.8
77.5°	106.5	168.6	181.4	167.6	156.7
80°	75.9	133.1	122.2	104.5	99.6
82.5°	52.2	83.8	67.0	52.2	45.3
85°	29.6	37.5	23.7	14.8	11.8
87.5°	12.8	8.9	4.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)