

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: P307130

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-CA125-W2A-U-5500K**

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: P307130  
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: 14FCZ2-35-UNV-L82765-HRP-CA125-W2A-U-5500K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" ACRYLIC SHEET  
Light Source: (168) 5500K 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**

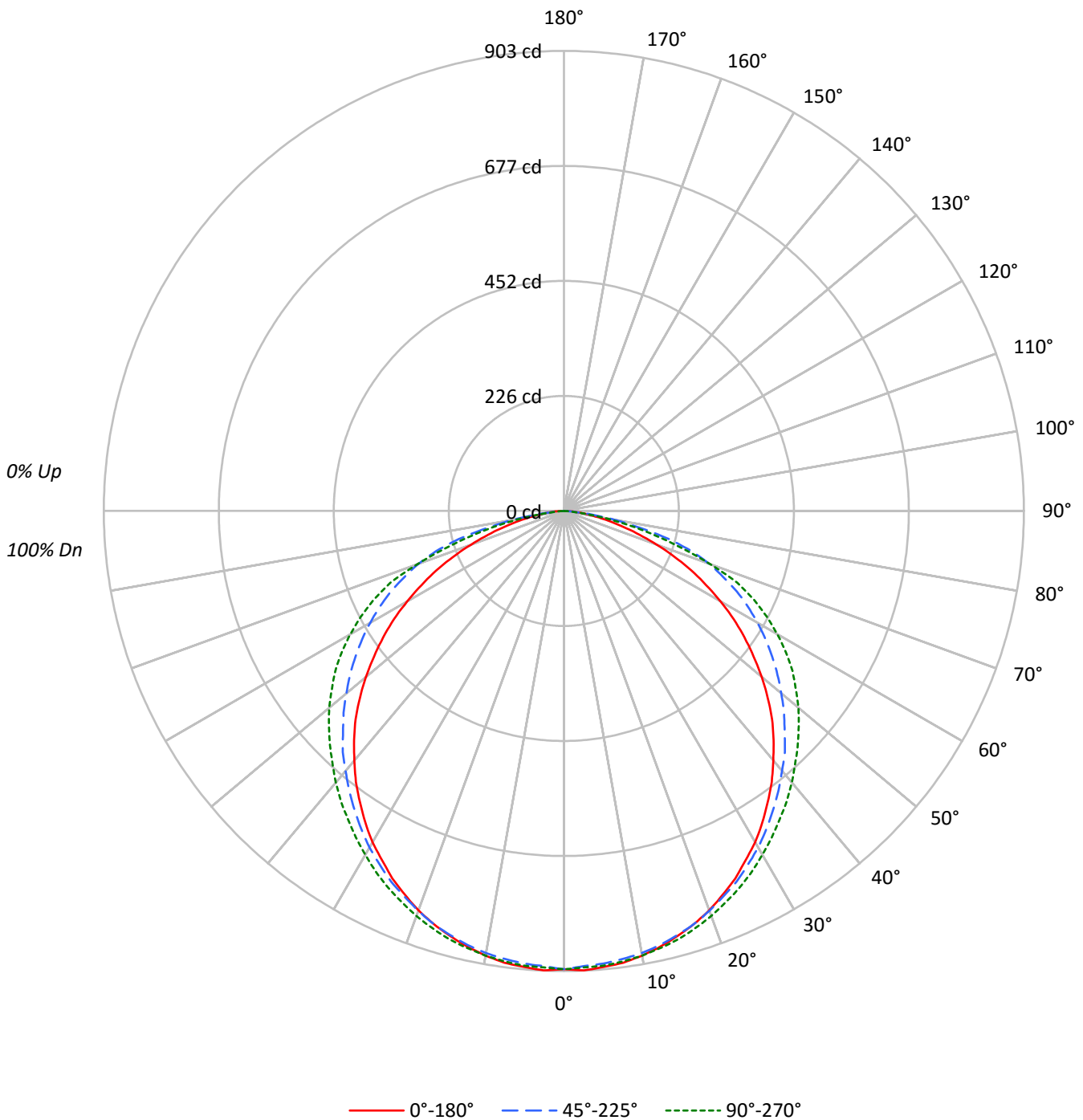
Lumens per Lamp: N/A  
Luminaire Lumens: 2648.0 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 30.3  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	2420	2420	2420
5°	2427	2409	2420
10°	2421	2407	2421
15°	2406	2401	2424
20°	2389	2392	2423
25°	2363	2383	2423
30°	2334	2370	2422
35°	2292	2352	2426
40°	2246	2340	2445
45°	2199	2332	2472
50°	2123	2332	2517
55°	2031	2344	2571
60°	1909	2362	2604
65°	1760	2386	2619
70°	1533	2391	2411
75°	1264	2225	1947
80°	993	1601	1303
85°	772	618	309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.1	3.2
10°-20°	244.3	9.2
20°-30°	371.0	14.0
30°-40°	449.5	17.0
40°-50°	473.7	17.9
50°-60°	442.2	16.7
60°-70°	353.4	13.3
70°-80°	194.4	7.3
80°-90°	34.3	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°	700.4	26.5
0°-40°	1149.9	43.4
0°-60°	2065.8	78.0
0°-90°	2648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2648.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	898	896	892	898	896	85
15°	864	864	862	870	870	244
25°	796	798	803	814	816	366
35°	698	704	716	734	739	437
45°	578	589	613	640	650	445
55°	433	455	500	535	548	387
65°	276	311	375	406	411	272
75°	122	174	214	192	187	131
85°	25	32	20	12	10	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	899.3	899.3	899.3	899.3	899.3
2.5°	902.6	900.1	894.3	899.3	896.8
5°	898.4	895.9	891.8	897.6	895.9
7.5°	894.3	890.9	886.8	893.4	891.8
10°	886.0	883.5	881.0	886.8	886.0
12.5°	876.0	875.1	872.6	879.3	878.5
15°	863.5	863.5	861.8	870.1	870.1
17.5°	850.1	849.3	850.1	859.3	858.5
20°	834.3	834.3	835.2	846.0	846.0
22.5°	815.2	816.0	818.5	831.8	831.0
25°	796.0	797.7	802.7	814.3	816.0
27.5°	772.7	776.9	782.7	796.9	798.5
30°	751.1	753.6	762.7	776.0	779.4
32.5°	725.2	730.2	740.2	755.2	759.4
35°	697.8	704.4	716.1	734.4	738.6
37.5°	670.3	676.1	691.9	711.1	718.6
40°	639.5	649.5	666.1	687.8	696.1
42.5°	609.5	619.5	642.0	664.5	672.0
45°	577.9	588.7	612.8	640.3	649.5
47.5°	542.9	555.4	586.2	615.3	625.3
50°	507.1	522.9	557.1	589.5	601.2
52.5°	469.6	489.6	528.7	562.9	573.7
55°	433.0	454.6	499.6	534.6	547.9
57.5°	395.5	418.8	469.6	509.6	517.1
60°	354.7	383.0	438.8	473.8	483.8
62.5°	314.7	347.2	407.2	440.5	448.8
65°	276.4	311.4	374.7	405.5	411.3
67.5°	234.8	276.4	338.9	367.2	368.9
70°	194.8	243.1	303.9	317.2	306.4
72.5°	155.7	207.3	263.1	252.3	243.1
75°	121.6	174.0	214.0	192.3	187.3
77.5°	89.9	142.4	153.2	141.6	132.4
80°	64.1	112.4	103.3	88.3	84.1
82.5°	44.1	70.8	56.6	44.1	38.3
85°	25.0	31.6	20.0	12.5	10.0
87.5°	10.8	7.5	4.2	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)