

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: P307123

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-CA08-W2A-U-6500K**

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: P307123  
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-CA08-W2A-U-6500K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.08" ACRYLIC SHEET  
Light Source: (168) 6500K 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**

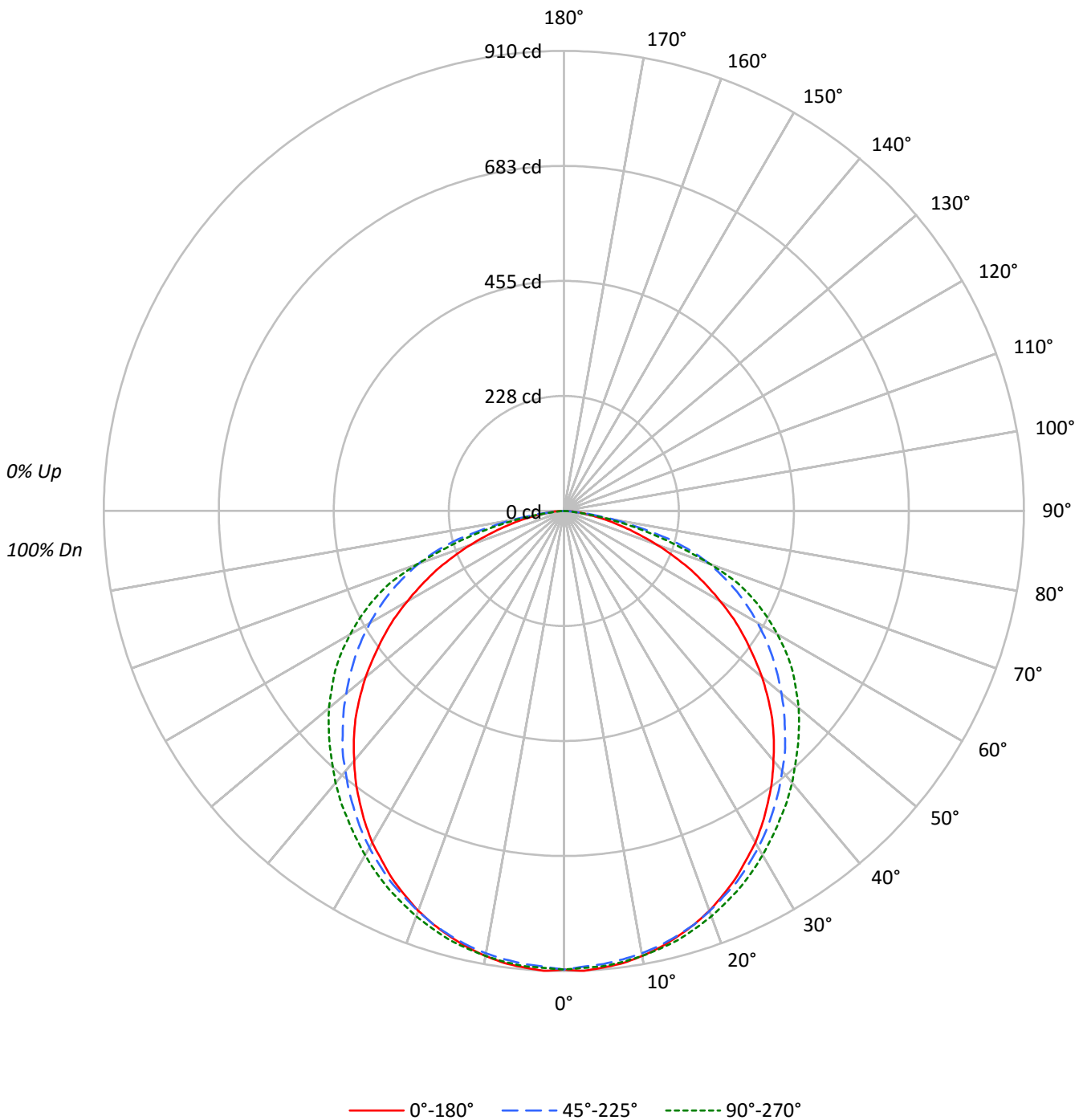
Lumens per Lamp: N/A  
Luminaire Lumens: 2671.0 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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	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°	2441	2441	2441
5°	2448	2430	2441
10°	2442	2428	2442
15°	2427	2422	2445
20°	2410	2412	2444
25°	2384	2404	2444
30°	2354	2390	2443
35°	2312	2373	2447
40°	2266	2360	2467
45°	2218	2353	2493
50°	2141	2352	2539
55°	2049	2364	2593
60°	1926	2382	2626
65°	1775	2407	2642
70°	1546	2412	2432
75°	1275	2245	1965
80°	1003	1613	1314
85°	778	624	312



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.9	3.2
10°-20°	246.4	9.2
20°-30°	374.2	14.0
30°-40°	453.4	17.0
40°-50°	477.8	17.9
50°-60°	446.1	16.7
60°-70°	356.5	13.3
70°-80°	196.1	7.3
80°-90°	34.6	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°	706.5	26.5
0°-40°	1159.9	43.4
0°-60°	2083.8	78.0
0°-90°	2671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2671.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	906	904	900	905	904	86
15°	871	871	869	878	878	246
25°	803	805	810	821	823	370
35°	704	711	722	741	745	440
45°	583	594	618	646	655	448
55°	437	459	504	539	553	390
65°	279	314	378	409	415	275
75°	123	176	216	194	189	132
85°	25	32	20	13	10	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	907.1	907.1	907.1	907.1	907.1
2.5°	910.4	907.9	902.0	907.1	904.6
5°	906.2	903.7	899.5	905.4	903.7
7.5°	902.0	898.7	894.5	901.2	899.5
10°	893.6	891.1	888.6	894.5	893.6
12.5°	883.6	882.7	880.2	886.9	886.1
15°	871.0	871.0	869.3	877.7	877.7
17.5°	857.5	856.7	857.5	866.8	865.9
20°	841.6	841.6	842.4	853.3	853.3
22.5°	822.3	823.1	825.6	839.1	838.2
25°	802.9	804.6	809.7	821.4	823.1
27.5°	779.4	783.6	789.5	803.8	805.5
30°	757.6	760.1	769.3	782.8	786.1
32.5°	731.5	736.6	746.7	761.8	766.0
35°	703.8	710.6	722.3	740.8	745.0
37.5°	676.1	682.0	698.0	717.3	724.8
40°	645.0	655.1	671.9	693.8	702.2
42.5°	614.8	624.9	647.6	670.2	677.8
45°	582.9	593.8	618.2	645.9	655.1
47.5°	547.6	560.2	591.3	620.7	630.8
50°	511.5	527.5	561.9	594.6	606.4
52.5°	473.7	493.9	533.3	567.8	578.7
55°	436.7	458.6	503.9	539.2	552.7
57.5°	398.9	422.5	473.7	514.0	521.6
60°	357.8	386.4	442.6	477.9	488.0
62.5°	317.5	350.2	410.7	444.3	452.7
65°	278.8	314.1	378.0	409.0	414.9
67.5°	236.9	278.8	341.8	370.4	372.1
70°	196.5	245.2	306.6	320.0	309.1
72.5°	157.1	209.1	265.4	254.5	245.2
75°	122.6	175.5	215.9	194.0	189.0
77.5°	90.7	143.6	154.5	142.8	133.5
80°	64.7	113.4	104.1	89.0	84.8
82.5°	44.5	71.4	57.1	44.5	38.6
85°	25.2	31.9	20.2	12.6	10.1
87.5°	10.9	7.6	4.2	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)