

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: P312126

Luminaire Tested: **14FCZ2-44-UNV-L83050-RDP-CP125-W2A-U-3500K**

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: P312126  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)  
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-L83050-RDP-CP125-W2A-U-3500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET  
Light Source: (168) 3500K 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**

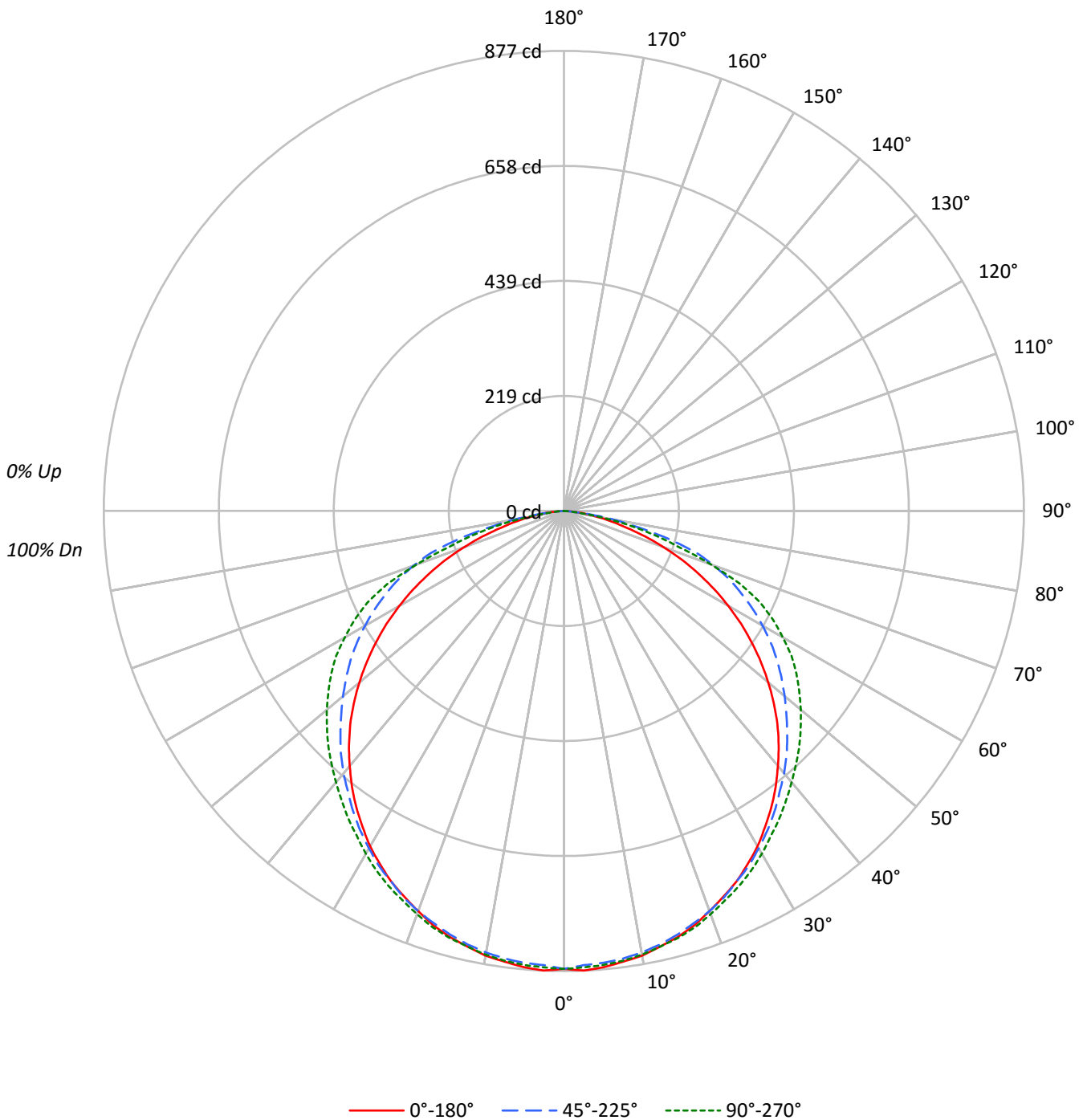
Lumens per Lamp: N/A  
Luminaire Lumens: 2606.0 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	2349	2349	2349
5°	2358	2336	2347
10°	2352	2335	2346
15°	2341	2330	2347
20°	2325	2325	2342
25°	2314	2314	2344
30°	2295	2307	2345
35°	2266	2299	2353
40°	2230	2294	2373
45°	2191	2292	2416
50°	2129	2300	2470
55°	2052	2329	2539
60°	1949	2354	2595
65°	1801	2384	2630
70°	1601	2401	2353
75°	1290	2157	1883
80°	1009	1514	1229
85°	692	438	315



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	3.2
10°-20°	237.0	9.1
20°-30°	360.9	13.8
30°-40°	439.6	16.9
40°-50°	466.4	17.9
50°-60°	440.1	16.9
60°-70°	355.4	13.6
70°-80°	192.8	7.4
80°-90°	31.2	1.2
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°	680.5	26.1
0°-40°	1120.1	43.0
0°-60°	2026.6	77.8
0°-90°	2606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2606.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	873	871	865	871	869	83
15°	840	838	836	842	842	237
25°	779	777	779	787	789	359
35°	690	694	700	714	716	431
45°	576	584	602	625	635	443
55°	437	456	496	529	541	391
65°	283	317	374	405	413	280
75°	124	181	208	187	181	136
85°	22	24	14	12	10	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	872.8	872.8	872.8	872.8	872.8
2.5°	876.9	872.8	866.7	872.8	870.8
5°	872.8	870.8	864.7	870.8	868.7
7.5°	866.7	866.7	860.6	864.7	864.7
10°	860.6	858.6	854.5	860.6	858.6
12.5°	850.4	848.4	846.4	852.5	850.4
15°	840.3	838.2	836.2	842.3	842.3
17.5°	828.1	826.0	824.0	832.1	832.1
20°	811.8	811.8	811.8	819.9	817.9
22.5°	795.5	795.5	797.5	805.7	803.6
25°	779.2	777.2	779.2	787.4	789.4
27.5°	758.9	760.9	763.0	771.1	773.1
30°	738.5	740.6	742.6	752.8	754.8
32.5°	714.1	718.2	722.3	734.5	734.5
35°	689.7	693.8	699.9	714.1	716.2
37.5°	663.3	667.3	675.5	691.7	695.8
40°	634.8	640.9	653.1	669.4	675.5
42.5°	606.3	614.4	628.7	647.0	655.1
45°	575.8	583.9	602.2	624.6	634.8
47.5°	543.2	553.4	575.8	604.3	612.4
50°	508.6	522.9	549.3	579.8	590.0
52.5°	474.0	490.3	522.9	555.4	565.6
55°	437.4	455.7	496.4	529.0	541.2
57.5°	400.8	421.1	467.9	502.5	514.7
60°	362.1	386.6	437.4	472.0	482.2
62.5°	323.5	352.0	406.9	441.5	449.6
65°	282.8	317.4	374.4	404.9	413.0
67.5°	244.1	284.8	341.8	364.2	364.2
70°	203.5	248.2	305.2	311.3	299.1
72.5°	162.8	213.6	264.5	242.1	231.9
75°	124.1	181.1	207.5	187.2	181.1
77.5°	93.6	146.5	146.5	134.3	130.2
80°	65.1	111.9	97.7	85.5	79.3
82.5°	42.7	63.1	50.9	40.7	34.6
85°	22.4	24.4	14.2	12.2	10.2
87.5°	8.1	4.1	2.0	4.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)