

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: P307447

Luminaire Tested: **14FCZ2-39-UNV-L82765-RDP-CA125-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: P307447  
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: 14FCZ2-39-UNV-L82765-RDP-CA125-W2A-U-6500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" 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: 2485.0 lumens  
Efficiency: N/A  
Efficacy: 71.4 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

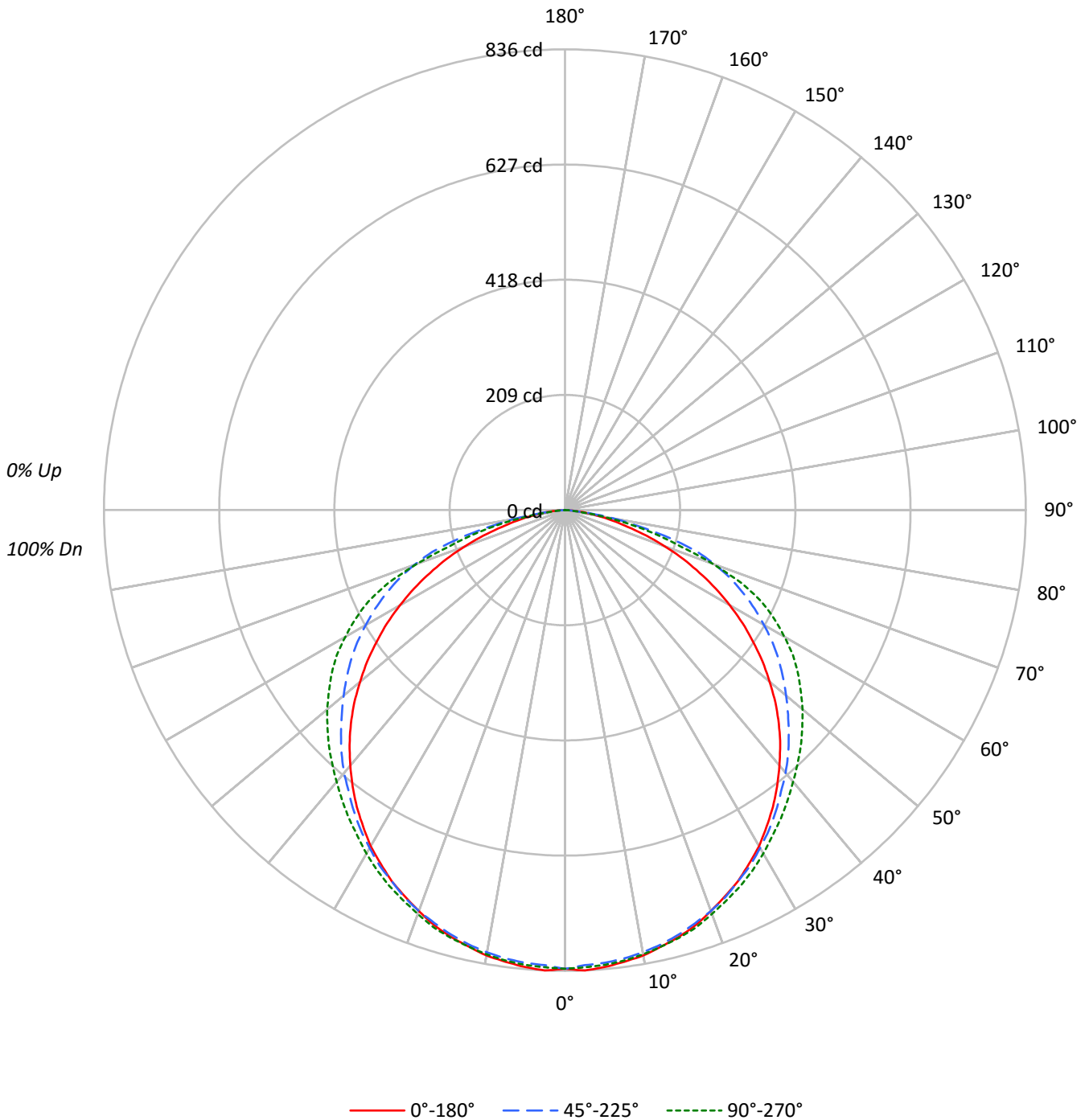
Input Watts (W): 34.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2240	2240	2240
5°	2248	2227	2238
10°	2242	2226	2237
15°	2232	2221	2238
20°	2217	2217	2233
25°	2206	2206	2235
30°	2188	2200	2237
35°	2161	2192	2243
40°	2126	2188	2263
45°	2089	2186	2304
50°	2030	2193	2355
55°	1957	2221	2421
60°	1858	2245	2475
65°	1717	2273	2507
70°	1526	2290	2244
75°	1230	2058	1796
80°	962	1443	1173
85°	658	420	299



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.8	3.2
10°-20°	226.0	9.1
20°-30°	344.1	13.8
30°-40°	419.2	16.9
40°-50°	444.7	17.9
50°-60°	419.7	16.9
60°-70°	338.9	13.6
70°-80°	183.8	7.4
80°-90°	29.7	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°	648.9	26.1
0°-40°	1068.1	43.0
0°-60°	1932.5	77.8
0°-90°	2485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	832	830	824	830	828	79
15°	801	799	797	803	803	226
25°	743	741	743	751	753	342
35°	658	662	667	681	683	411
45°	549	557	574	596	605	423
55°	417	435	473	504	516	373
65°	270	303	357	386	394	267
75°	118	173	198	178	173	129
85°	21	23	14	12	10	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	832.3	832.3	832.3	832.3	832.3
2.5°	836.2	832.3	826.5	832.3	830.3
5°	832.3	830.3	824.5	830.3	828.4
7.5°	826.5	826.5	820.6	824.5	824.5
10°	820.6	818.7	814.8	820.6	818.7
12.5°	810.9	809.0	807.1	812.9	810.9
15°	801.2	799.3	797.4	803.2	803.2
17.5°	789.6	787.7	785.7	793.5	793.5
20°	774.1	774.1	774.1	781.8	779.9
22.5°	758.6	758.6	760.5	768.3	766.3
25°	743.0	741.1	743.0	750.8	752.7
27.5°	723.6	725.6	727.5	735.3	737.2
30°	704.2	706.2	708.1	717.8	719.8
32.5°	681.0	684.8	688.7	700.4	700.4
35°	657.7	661.6	667.4	681.0	682.9
37.5°	632.5	636.3	644.1	659.6	663.5
40°	605.3	611.1	622.8	638.3	644.1
42.5°	578.1	585.9	599.5	616.9	624.7
45°	549.0	556.8	574.3	595.6	605.3
47.5°	518.0	527.7	549.0	576.2	584.0
50°	485.0	498.6	523.8	552.9	562.6
52.5°	452.0	467.6	498.6	529.6	539.3
55°	417.1	434.6	473.4	504.4	516.1
57.5°	382.2	401.6	446.2	479.2	490.8
60°	345.3	368.6	417.1	450.1	459.8
62.5°	308.5	335.6	388.0	421.0	428.8
65°	269.7	302.7	357.0	386.1	393.8
67.5°	232.8	271.6	325.9	347.3	347.3
70°	194.0	236.7	291.0	296.8	285.2
72.5°	155.2	203.7	252.2	230.9	221.2
75°	118.3	172.7	197.9	178.5	172.7
77.5°	89.2	139.7	139.7	128.0	124.2
80°	62.1	106.7	93.1	81.5	75.7
82.5°	40.7	60.1	48.5	38.8	33.0
85°	21.3	23.3	13.6	11.6	9.7
87.5°	7.8	3.9	1.9	3.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)