

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: P307450

Luminaire Tested: **14FCZ2-39-UNV-L82765-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: P307450  
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-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: 2277.0 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

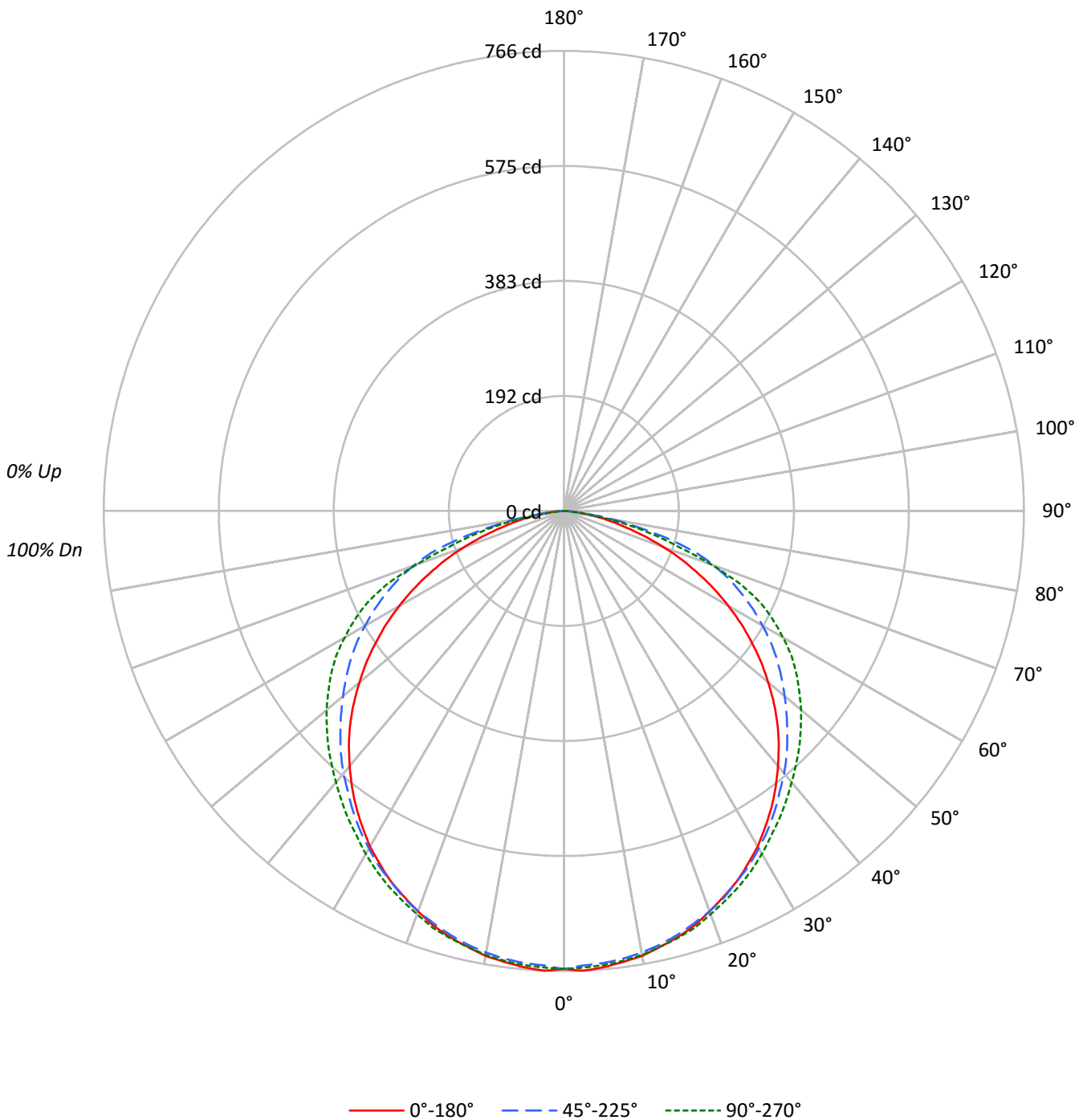
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2052	2052	2052
5°	2060	2041	2051
10°	2055	2040	2050
15°	2045	2035	2050
20°	2031	2031	2046
25°	2022	2022	2048
30°	2005	2016	2049
35°	1980	2009	2055
40°	1948	2004	2073
45°	1915	2003	2111
50°	1860	2009	2158
55°	1793	2035	2219
60°	1703	2057	2267
65°	1573	2083	2298
70°	1399	2098	2056
75°	1127	1885	1645
80°	882	1322	1074
85°	605	383	275



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.2	3.2
10°-20°	207.1	9.1
20°-30°	315.4	13.8
30°-40°	384.1	16.9
40°-50°	407.5	17.9
50°-60°	384.6	16.9
60°-70°	310.5	13.6
70°-80°	168.4	7.4
80°-90°	27.3	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°	594.6	26.1
0°-40°	978.7	43.0
0°-60°	1770.8	77.8
0°-90°	2277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2277.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	763	761	756	761	759	72
15°	734	732	731	736	736	207
25°	681	679	681	688	690	313
35°	603	606	612	624	626	377
45°	503	510	526	546	555	387
55°	382	398	434	462	473	341
65°	247	277	327	354	361	245
75°	108	158	181	164	158	118
85°	20	21	12	11	9	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	762.6	762.6	762.6	762.6	762.6
2.5°	766.2	762.6	757.3	762.6	760.8
5°	762.6	760.8	755.5	760.8	759.1
7.5°	757.3	757.3	752.0	755.5	755.5
10°	752.0	750.2	746.6	752.0	750.2
12.5°	743.1	741.3	739.5	744.8	743.1
15°	734.2	732.4	730.6	736.0	736.0
17.5°	723.5	721.7	720.0	727.1	727.1
20°	709.3	709.3	709.3	716.4	714.6
22.5°	695.1	695.1	696.9	704.0	702.2
25°	680.9	679.1	680.9	688.0	689.7
27.5°	663.1	664.9	666.6	673.7	675.5
30°	645.3	647.1	648.9	657.7	659.5
32.5°	624.0	627.5	631.1	641.7	641.7
35°	602.6	606.2	611.5	624.0	625.7
37.5°	579.5	583.1	590.2	604.4	608.0
40°	554.6	560.0	570.6	584.9	590.2
42.5°	529.7	536.9	549.3	565.3	572.4
45°	503.1	510.2	526.2	545.7	554.6
47.5°	474.6	483.5	503.1	528.0	535.1
50°	444.4	456.9	480.0	506.6	515.5
52.5°	414.2	428.4	456.9	485.3	494.2
55°	382.2	398.2	433.8	462.2	472.9
57.5°	350.2	368.0	408.9	439.1	449.8
60°	316.4	337.8	382.2	412.4	421.3
62.5°	282.7	307.5	355.5	385.8	392.9
65°	247.1	277.3	327.1	353.8	360.9
67.5°	213.3	248.9	298.7	318.2	318.2
70°	177.8	216.9	266.7	272.0	261.3
72.5°	142.2	186.7	231.1	211.5	202.7
75°	108.4	158.2	181.3	163.5	158.2
77.5°	81.8	128.0	128.0	117.3	113.8
80°	56.9	97.8	85.3	74.7	69.3
82.5°	37.3	55.1	44.4	35.6	30.2
85°	19.6	21.3	12.4	10.7	8.9
87.5°	7.1	3.6	1.8	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)