

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: P308484

Luminaire Tested: **22FCZ2-34HE-UNV-L82765-RDP-CP125-W2A-U-3000K**

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: P308484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 22FCZ2-34HE-UNV-L82765-RDP-CP125-W2A-U-3000K  
Description: 2'X2' TROFFER LED MODULE, SMOOTH LENS WITH INSERT, 0.125" POLYCARB SHEET  
Light Source: (168) 3000K 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**

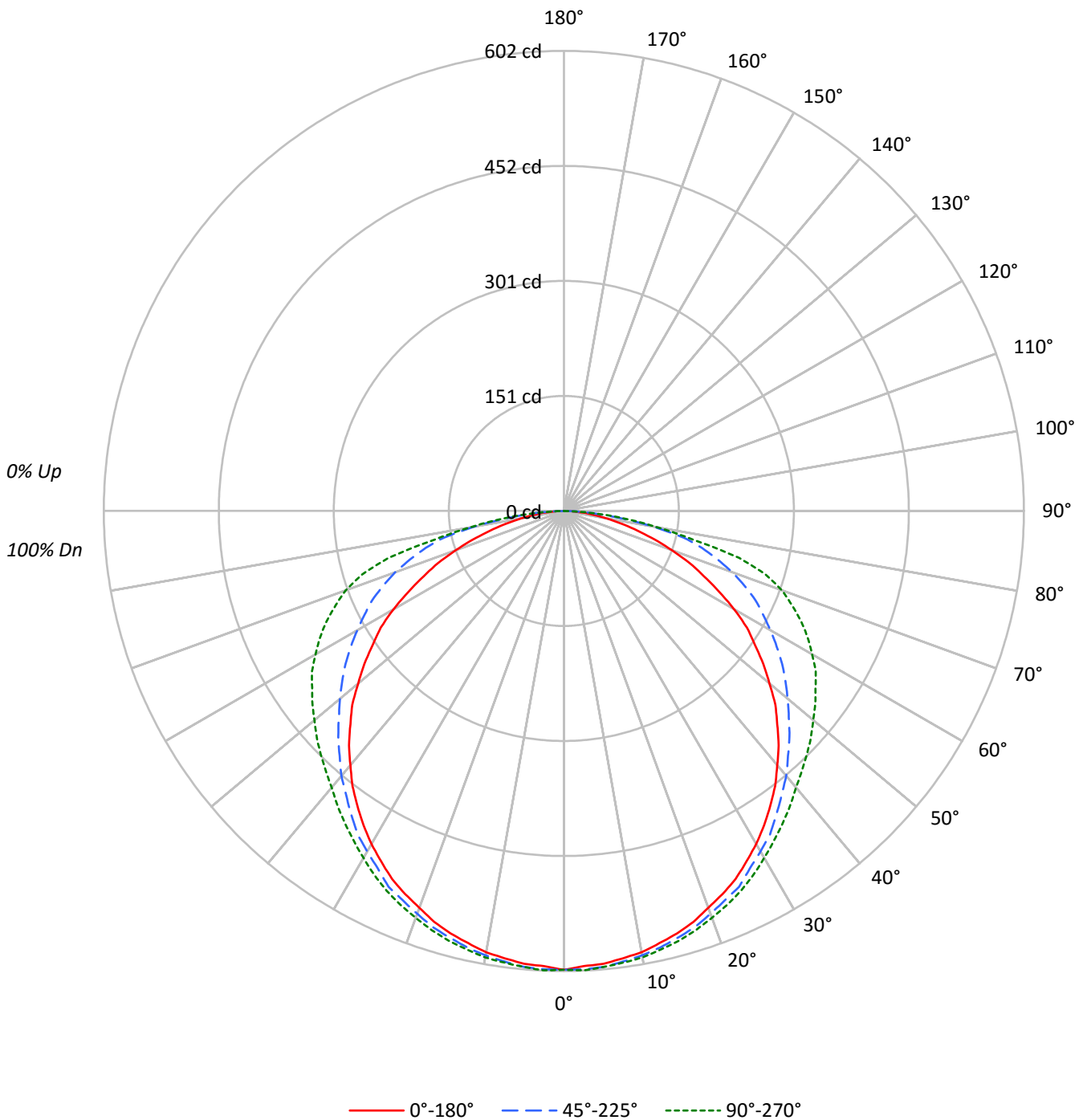
Lumens per Lamp: N/A  
Luminaire Lumens: 1911.0 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82				82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67				67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55				55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47				47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40				40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35				35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31				31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27				27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24				24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22				22

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

	0°	45°	90°
0°	1615	1615	1615
5°	1606	1618	1618
10°	1602	1613	1621
15°	1594	1610	1621
20°	1582	1606	1622
25°	1578	1611	1628
30°	1564	1599	1629
35°	1547	1593	1640
40°	1526	1590	1659
45°	1503	1589	1712
50°	1472	1601	1783
55°	1431	1635	1886
60°	1385	1680	2020
65°	1289	1763	2184
70°	1183	1847	2389
75°	1038	1944	2470
80°	893	1852	1939
85°	781	1346	1476



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.8	3.0
10°-20°	163.0	8.5
20°-30°	248.7	13.0
30°-40°	303.7	15.9
40°-50°	324.7	17.0
50°-60°	313.4	16.4
60°-70°	269.8	14.1
70°-80°	182.6	9.6
80°-90°	48.2	2.5
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°	468.6	24.5
0°-40°	772.3	40.4
0°-60°	1410.5	73.8
0°-90°	1911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1911.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	595	596	599	599	599	56
15°	572	574	578	581	582	161
25°	531	534	543	546	548	245
35°	471	475	485	495	499	295
45°	395	402	418	439	450	305
55°	305	315	349	384	402	273
65°	202	222	277	320	343	201
75°	100	132	187	225	238	107
85°	25	35	44	45	48	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	600.3	600.3	600.3	600.3	600.3
2.5°	596.1	597.5	600.3	600.3	601.7
5°	594.7	596.1	598.9	598.9	598.9
7.5°	590.4	591.8	594.7	596.1	596.1
10°	586.2	587.6	590.4	591.8	593.2
12.5°	579.2	580.6	584.8	587.6	587.6
15°	572.2	573.6	577.8	580.6	582.0
17.5°	563.7	566.5	570.8	573.6	575.0
20°	552.5	555.3	560.9	565.1	566.5
22.5°	542.6	545.5	551.1	555.3	558.1
25°	531.4	534.2	542.6	545.5	548.3
27.5°	517.3	520.1	527.2	532.8	537.0
30°	503.3	506.1	514.5	521.6	524.4
32.5°	487.8	492.0	501.9	507.5	511.7
35°	470.9	475.2	485.0	494.8	499.1
37.5°	454.1	458.3	468.1	480.8	486.4
40°	434.4	440.0	452.7	469.5	472.4
42.5°	416.1	423.1	434.4	454.1	461.1
45°	395.0	402.1	417.5	438.6	449.9
47.5°	375.3	382.4	399.2	424.6	438.6
50°	351.5	361.3	382.4	411.9	426.0
52.5°	329.0	337.4	365.5	397.8	414.7
55°	305.1	314.9	348.6	383.8	402.1
57.5°	284.0	292.4	330.4	369.7	390.8
60°	257.3	268.5	312.1	354.3	375.3
62.5°	229.1	246.0	293.8	337.4	359.9
65°	202.4	222.1	276.9	320.5	343.0
67.5°	178.5	199.6	255.9	302.2	323.3
70°	150.4	177.1	234.8	279.8	303.7
72.5°	125.1	154.6	210.9	255.9	276.9
75°	99.8	132.1	187.0	224.9	237.6
77.5°	77.3	108.2	160.3	171.5	172.9
80°	57.6	85.8	119.5	120.9	125.1
82.5°	39.4	60.4	77.3	84.3	85.8
85°	25.3	35.1	43.6	45.0	47.8
87.5°	11.2	12.7	15.5	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)