

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: P308775

Luminaire Tested: **22FCZ2-34HE-UNV-L82765-CP250-W2A-U-4500K**

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: P308775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-33)  
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-CP250-W2A-U-4500K  
Description: 2'X2' TROFFER LED MODULE, RIBBED LENS, 0.250" 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**

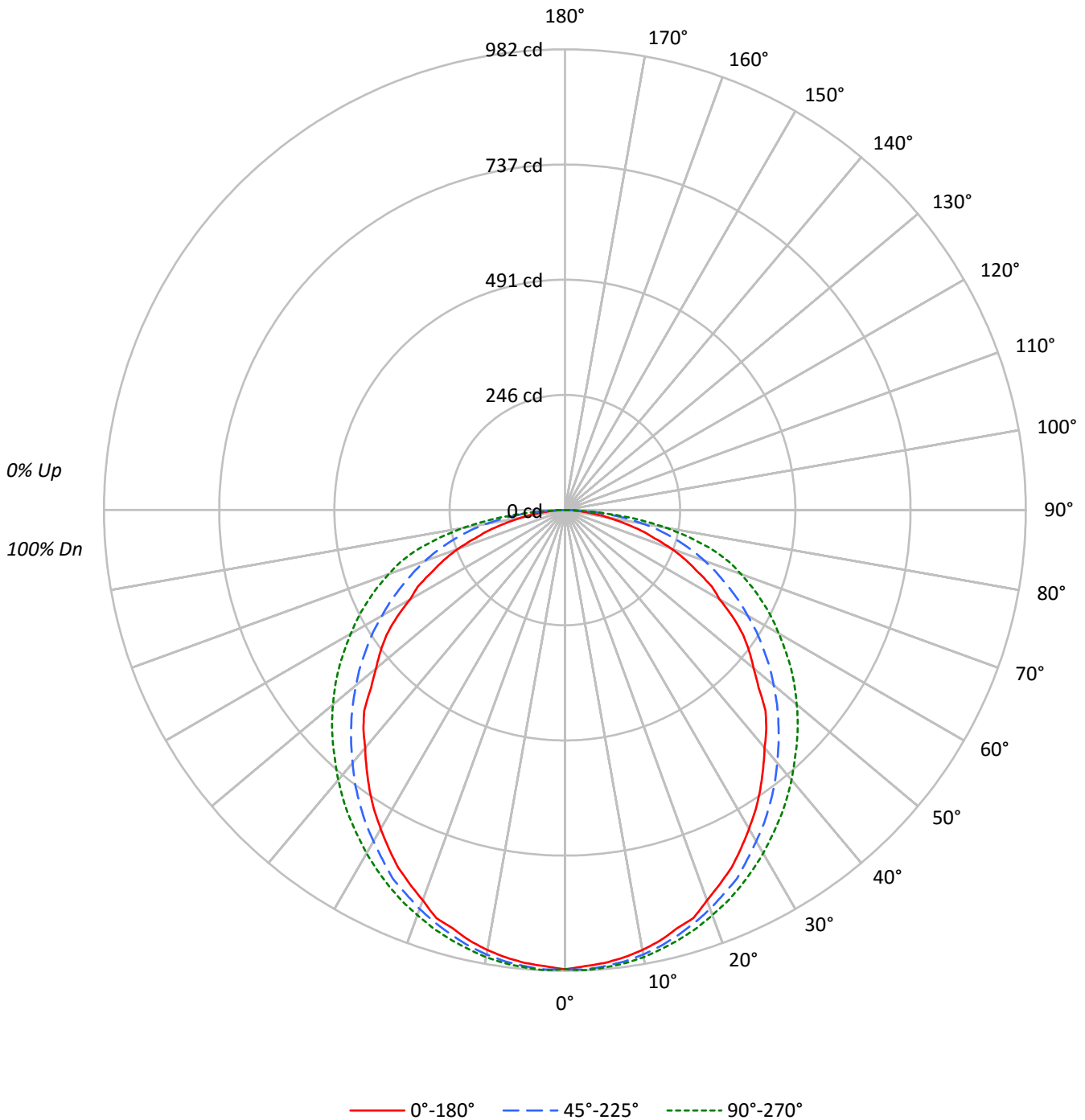
Lumens per Lamp: N/A  
Luminaire Lumens: 2917.0 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 28.1  
Input Voltage (V): NR  
Input Current (A<sub>in</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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	2634	2634	2634
5°	2617	2636	2644
10°	2602	2628	2644
15°	2571	2610	2637
20°	2535	2591	2631
25°	2496	2574	2628
30°	2438	2533	2625
35°	2385	2504	2628
40°	2325	2472	2638
45°	2300	2449	2662
50°	2197	2431	2700
55°	2175	2424	2758
60°	2051	2419	2833
65°	1991	2436	2960
70°	1911	2493	3142
75°	1742	2569	3382
80°	1492	2661	3419
85°	1207	2544	2930



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.6	3.2
10°-20°	264.2	9.1
20°-30°	397.6	13.6
30°-40°	477.2	16.4
40°-50°	498.8	17.1
50°-60°	464.8	15.9
60°-70°	381.2	13.1
70°-80°	256.9	8.8
80°-90°	83.7	2.9
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°	754.4	25.9
0°-40°	1231.6	42.2
0°-60°	2195.2	75.3
0°-90°	2917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2917.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	969	972	976	977	979	92
15°	923	928	937	945	947	261
25°	840	846	867	880	885	386
35°	726	736	762	789	800	454
45°	604	609	644	683	700	462
55°	464	472	517	565	588	411
65°	313	327	382	438	465	311
75°	168	186	247	303	325	176
85°	39	56	82	96	95	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	978.7	978.7	978.7	978.7	978.7
2.5°	973.1	975.9	980.1	981.5	981.5
5°	968.9	971.7	975.9	977.3	978.7
7.5°	961.9	964.7	970.3	973.1	974.5
10°	952.2	954.9	961.9	966.1	967.5
12.5°	939.6	942.4	950.8	956.3	957.7
15°	922.8	928.4	936.8	945.2	946.6
17.5°	911.7	910.3	921.4	931.2	934.0
20°	885.1	892.1	904.7	915.9	918.6
22.5°	862.8	868.4	885.1	897.7	903.3
25°	840.5	846.0	867.0	879.6	885.1
27.5°	812.5	820.9	840.5	858.6	865.6
30°	784.6	793.0	815.3	836.3	844.7
32.5°	756.7	766.5	790.2	812.5	822.3
35°	726.0	735.8	762.3	788.8	800.0
37.5°	693.9	706.4	734.4	763.7	776.2
40°	661.8	674.3	703.6	737.1	751.1
42.5°	635.2	640.8	674.3	710.6	724.6
45°	604.5	608.7	643.6	682.7	699.5
47.5°	559.8	575.2	612.9	656.2	672.9
50°	524.9	541.7	580.8	626.9	645.0
52.5°	495.6	506.8	550.1	596.1	617.1
55°	463.5	471.9	516.6	565.4	587.8
57.5°	424.4	439.8	484.5	534.7	557.1
60°	381.1	400.7	449.5	504.0	526.3
62.5°	353.2	364.4	417.4	471.9	497.0
65°	312.7	326.7	382.5	438.4	464.9
67.5°	279.2	293.2	350.4	406.3	432.8
70°	242.9	256.9	316.9	372.8	399.3
72.5°	201.0	220.6	283.4	339.3	367.2
75°	167.5	185.7	247.1	303.0	325.3
77.5°	129.8	153.6	210.8	256.9	273.6
80°	96.3	120.1	171.7	205.2	220.6
82.5°	65.6	89.4	128.4	153.6	161.9
85°	39.1	55.8	82.4	96.3	94.9
87.5°	18.1	23.7	33.5	33.5	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)