

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: P308761

Luminaire Tested: **22FCZ2-34HE-UNV-L82765-CP125-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: P308761  
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-CP125-W2A-U-6500K  
Description: 2'X2' TROFFER LED MODULE, RIBBED LENS, 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**

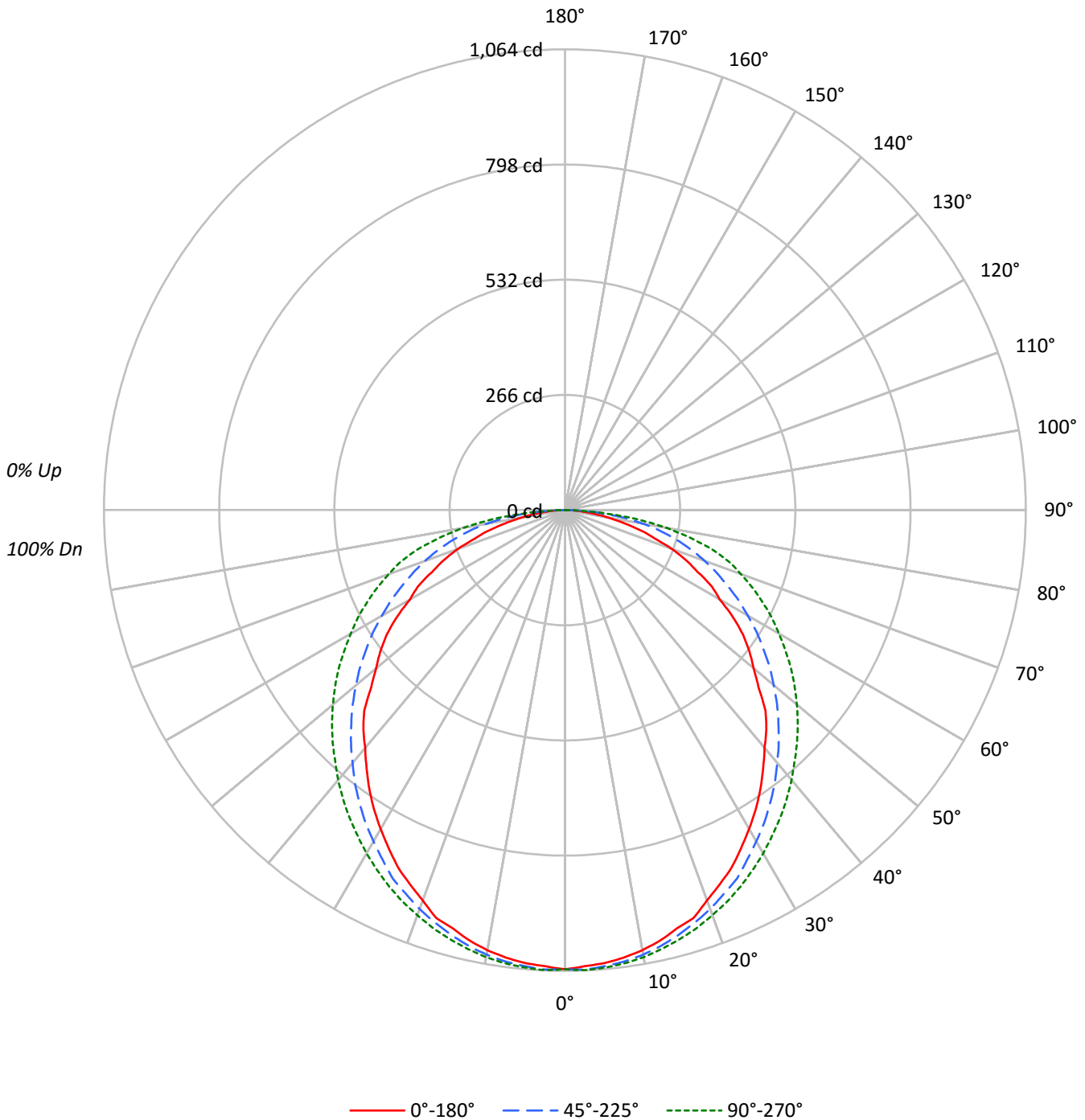
Lumens per Lamp: N/A  
Luminaire Lumens: 3161.0 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	2854	2854	2854
5°	2836	2857	2865
10°	2819	2848	2865
15°	2786	2828	2858
20°	2747	2808	2851
25°	2704	2790	2848
30°	2642	2745	2844
35°	2584	2713	2848
40°	2519	2679	2859
45°	2493	2654	2885
50°	2382	2635	2926
55°	2357	2626	2988
60°	2223	2622	3070
65°	2158	2639	3208
70°	2071	2702	3404
75°	1887	2784	3665
80°	1618	2884	3704
85°	1309	2757	3177



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	3.2
10°-20°	286.3	9.1
20°-30°	430.9	13.6
30°-40°	517.1	16.4
40°-50°	540.5	17.1
50°-60°	503.7	15.9
60°-70°	413.1	13.1
70°-80°	278.4	8.8
80°-90°	90.7	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°	817.5	25.9
0°-40°	1334.6	42.2
0°-60°	2378.8	75.3
0°-90°	3161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3161.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1050	1053	1058	1059	1060	100
15°	1000	1006	1015	1024	1026	283
25°	911	917	940	953	959	419
35°	787	797	826	855	867	492
45°	655	660	697	740	758	500
55°	502	511	560	613	637	445
65°	339	354	414	475	504	337
75°	182	201	268	328	352	191
85°	42	60	89	104	103	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1060.5	1060.5	1060.5	1060.5	1060.5
2.5°	1054.5	1057.5	1062.1	1063.6	1063.6
5°	1050.0	1053.0	1057.5	1059.0	1060.5
7.5°	1042.4	1045.4	1051.5	1054.5	1056.0
10°	1031.8	1034.8	1042.4	1046.9	1048.4
12.5°	1018.2	1021.2	1030.3	1036.3	1037.8
15°	1000.0	1006.1	1015.2	1024.2	1025.7
17.5°	987.9	986.4	998.5	1009.1	1012.1
20°	959.2	966.7	980.4	992.5	995.5
22.5°	935.0	941.0	959.2	972.8	978.8
25°	910.8	916.8	939.5	953.1	959.2
27.5°	880.5	889.6	910.8	930.4	938.0
30°	850.2	859.3	883.5	906.2	915.3
32.5°	820.0	830.6	856.3	880.5	891.1
35°	786.7	797.3	826.0	854.8	866.9
37.5°	751.9	765.5	795.8	827.6	841.2
40°	717.1	730.7	762.5	798.8	813.9
42.5°	688.4	694.4	730.7	770.1	785.2
45°	655.1	659.6	697.4	739.8	758.0
47.5°	606.7	623.3	664.2	711.1	729.2
50°	568.9	587.0	629.4	679.3	699.0
52.5°	537.1	549.2	596.1	646.0	668.7
55°	502.3	511.4	559.8	612.7	636.9
57.5°	459.9	476.6	525.0	579.4	603.6
60°	413.0	434.2	487.2	546.2	570.4
62.5°	382.8	394.9	452.4	511.4	538.6
65°	338.9	354.0	414.5	475.1	503.8
67.5°	302.6	317.7	379.7	440.3	469.0
70°	263.2	278.4	343.4	403.9	432.7
72.5°	217.9	239.0	307.1	367.6	397.9
75°	181.5	201.2	267.8	328.3	352.5
77.5°	140.7	166.4	228.4	278.4	296.5
80°	104.4	130.1	186.1	222.4	239.0
82.5°	71.1	96.8	139.2	166.4	175.5
85°	42.4	60.5	89.3	104.4	102.9
87.5°	19.7	25.7	36.3	36.3	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)