

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: P307698

Luminaire Tested: **14FCZ2-35-UNV-L82765-CP250-W2A-U-5700K**

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: P307698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-35-UNV-L82765-CP250-W2A-U-5700K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.250" POLYCARB SHEET  
Light Source: (168) 5700K 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: 3259.0 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

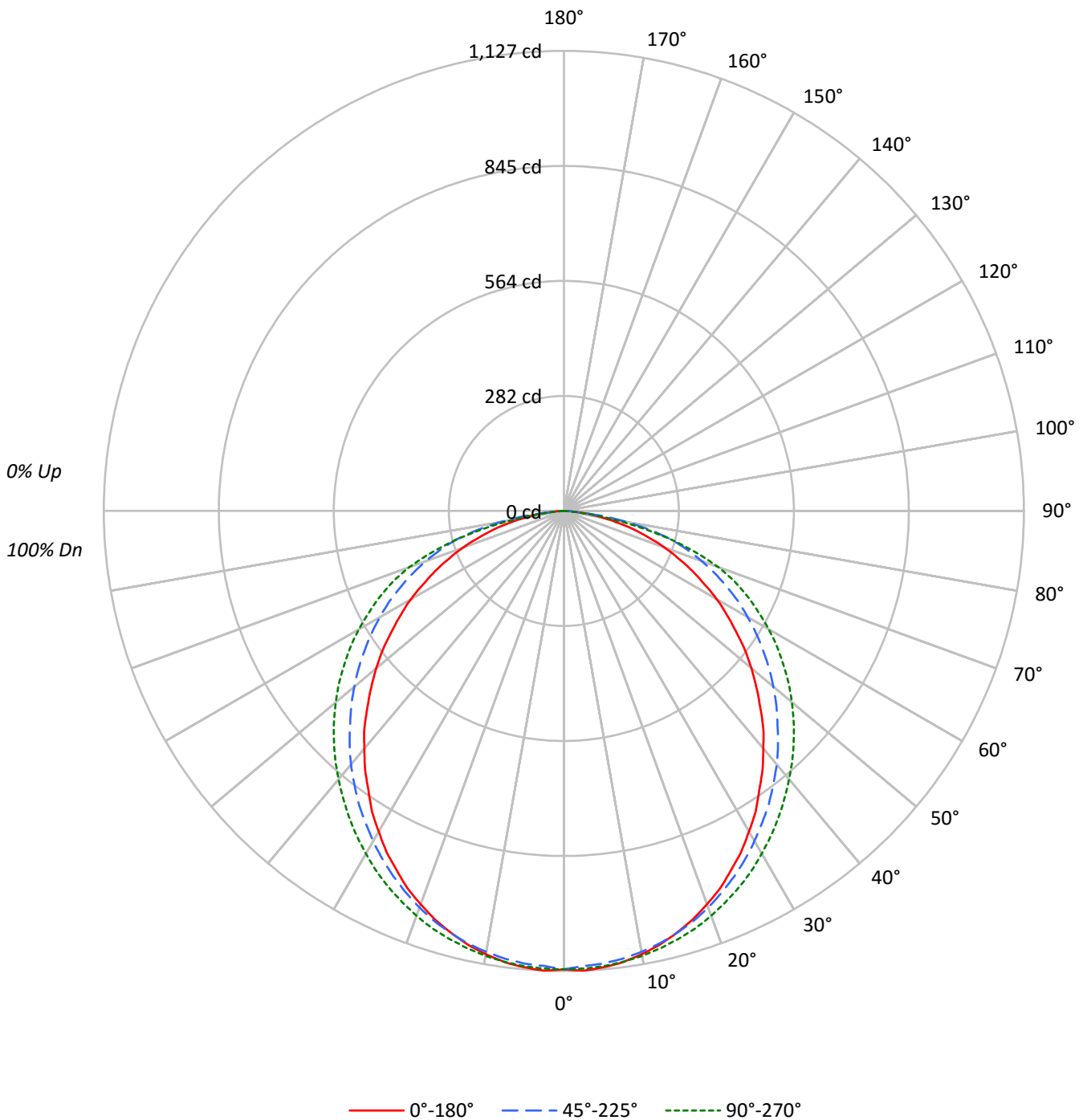
Input Watts (W): 30.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	3021	3021	3021
5°	3031	3005	3023
10°	3012	2996	3024
15°	2980	2982	3022
20°	2936	2961	3022
25°	2880	2932	3018
30°	2818	2902	3012
35°	2743	2877	3010
40°	2670	2849	3015
45°	2589	2818	3031
50°	2513	2805	3051
55°	2417	2796	3079
60°	2331	2800	3121
65°	2212	2809	3170
70°	2076	2830	3168
75°	1881	2856	2863
80°	1543	2466	2038
85°	1145	1167	472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.2	3.3
10°-20°	303.5	9.3
20°-30°	457.2	14.0
30°-40°	548.6	16.8
40°-50°	571.8	17.5
50°-60°	529.4	16.2
60°-70°	427.7	13.1
70°-80°	260.8	8.0
80°-90°	53.8	1.7
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°	866.9	26.6
0°-40°	1415.5	43.4
0°-60°	2516.7	77.2
0°-90°	3259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3259.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1123	1123	1123	1123	1123	
5°	1122	1119	1113	1121	1119	106
15°	1070	1070	1070	1085	1085	302
25°	970	976	988	1012	1017	447
35°	835	848	876	908	916	523
45°	680	700	740	782	796	526
55°	515	542	596	642	656	462
65°	347	382	441	485	498	343
75°	181	221	275	279	275	190
85°	37	55	38	21	15	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1122.7	1122.7	1122.7	1122.7	1122.7
2.5°	1127.1	1123.5	1115.5	1123.5	1122.0
5°	1122.0	1119.1	1112.6	1120.6	1119.1
7.5°	1114.7	1111.8	1106.0	1115.5	1114.0
10°	1102.4	1100.9	1096.6	1107.5	1106.7
12.5°	1087.9	1087.1	1084.9	1097.3	1096.6
15°	1069.7	1070.4	1070.4	1084.9	1084.9
17.5°	1049.3	1050.8	1053.7	1069.7	1071.9
20°	1025.4	1028.3	1034.1	1052.2	1055.2
22.5°	1000.7	1002.8	1011.6	1033.4	1036.3
25°	970.1	975.9	987.6	1012.3	1016.6
27.5°	941.1	946.2	962.1	987.6	994.8
30°	906.9	914.9	933.8	961.4	969.4
32.5°	874.2	882.9	904.7	936.7	944.0
35°	835.0	848.0	875.7	907.6	916.4
37.5°	799.4	811.7	843.0	877.8	888.0
40°	760.1	775.4	811.0	848.0	858.2
42.5°	723.8	738.3	776.8	814.6	828.4
45°	680.2	700.5	740.5	781.9	796.5
47.5°	640.2	660.6	706.3	750.7	763.8
50°	600.2	622.0	670.0	715.8	728.9
52.5°	558.8	582.1	633.7	679.5	694.7
55°	515.2	542.1	595.9	642.4	656.2
57.5°	473.8	501.4	558.8	606.1	619.9
60°	433.1	461.4	520.3	565.4	579.9
62.5°	388.1	421.5	482.5	526.9	537.8
65°	347.4	381.5	441.1	485.4	497.8
67.5°	304.5	341.5	401.1	441.8	453.5
70°	263.8	302.3	359.7	397.5	402.6
72.5°	220.2	259.4	317.6	341.5	341.5
75°	180.9	220.9	274.7	279.0	275.4
77.5°	138.1	182.4	217.3	208.6	199.8
80°	99.6	143.2	159.1	143.2	131.5
82.5°	66.9	103.9	95.9	76.3	67.6
85°	37.1	55.2	37.8	21.1	15.3
87.5°	13.8	12.4	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)