

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: P307680

Luminaire Tested: **14FCZ2-35-UNV-L82765-CP125-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: P307680  
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-CP125-W2A-U-5700K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" 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**

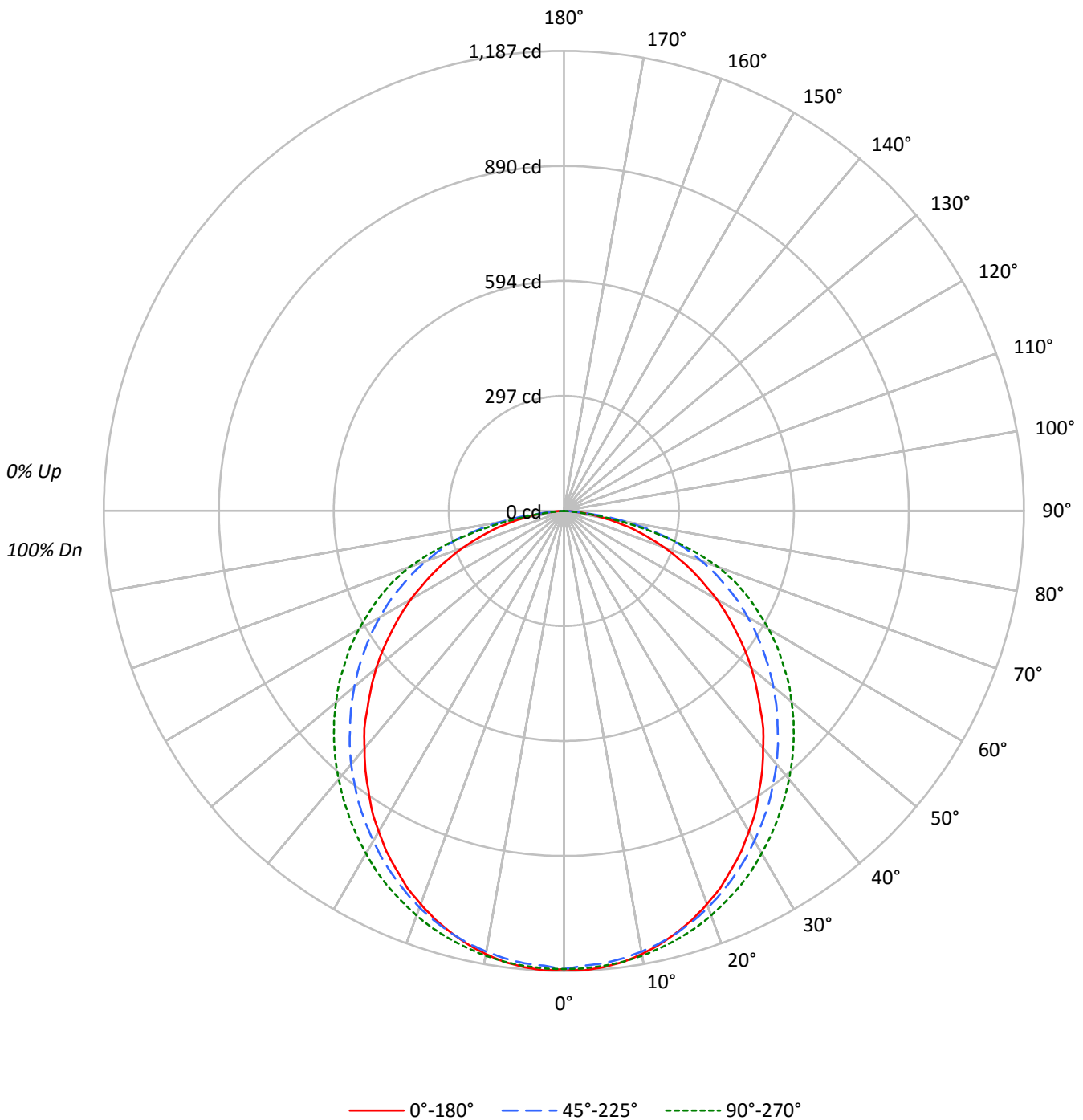
Lumens per Lamp: N/A  
Luminaire Lumens: 3431.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 30.3  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	3181	3181	3181
5°	3191	3164	3183
10°	3171	3154	3184
15°	3137	3139	3182
20°	3091	3118	3181
25°	3032	3087	3178
30°	2967	3055	3171
35°	2888	3029	3169
40°	2811	2999	3174
45°	2725	2967	3191
50°	2645	2953	3212
55°	2545	2943	3241
60°	2454	2948	3286
65°	2329	2957	3337
70°	2185	2980	3334
75°	1981	3007	3015
80°	1624	2596	2146
85°	1204	1229	497



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.8	3.3
10°-20°	319.5	9.3
20°-30°	481.3	14.0
30°-40°	577.6	16.8
40°-50°	602.0	17.5
50°-60°	557.3	16.2
60°-70°	450.3	13.1
70°-80°	274.5	8.0
80°-90°	56.7	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°	912.7	26.6
0°-40°	1490.2	43.4
0°-60°	2649.5	77.2
0°-90°	3431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3431.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1181	1178	1171	1180	1178	112
15°	1126	1127	1127	1142	1142	317
25°	1021	1028	1040	1066	1070	471
35°	879	893	922	956	965	551
45°	716	738	780	823	838	553
55°	542	571	627	676	691	486
65°	366	402	464	511	524	362
75°	190	233	289	294	290	200
85°	39	58	40	22	16	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1182.0	1182.0	1182.0	1182.0	1182.0
2.5°	1186.6	1182.8	1174.3	1182.8	1181.2
5°	1181.2	1178.2	1171.3	1179.7	1178.2
7.5°	1173.6	1170.5	1164.4	1174.3	1172.8
10°	1160.6	1159.0	1154.4	1165.9	1165.2
12.5°	1145.3	1144.5	1142.2	1155.2	1154.4
15°	1126.1	1126.9	1126.9	1142.2	1142.2
17.5°	1104.7	1106.3	1109.3	1126.1	1128.4
20°	1079.5	1082.5	1088.7	1107.8	1110.8
22.5°	1053.5	1055.8	1064.9	1087.9	1091.0
25°	1021.3	1027.5	1039.7	1065.7	1070.3
27.5°	990.7	996.1	1012.9	1039.7	1047.3
30°	954.8	963.2	983.1	1012.2	1020.6
32.5°	920.3	929.5	952.5	986.1	993.8
35°	879.0	892.8	921.9	955.5	964.7
37.5°	841.5	854.6	887.4	924.2	934.9
40°	800.2	816.3	853.8	892.8	903.5
42.5°	762.0	777.3	817.8	857.6	872.1
45°	716.1	737.5	779.6	823.2	838.5
47.5°	674.0	695.4	743.6	790.3	804.1
50°	631.9	654.9	705.4	753.6	767.3
52.5°	588.3	612.8	667.1	715.3	731.4
55°	542.4	570.7	627.3	676.3	690.8
57.5°	498.8	527.9	588.3	638.0	652.6
60°	456.0	485.8	547.8	595.2	610.5
62.5°	408.5	443.7	508.0	554.7	566.1
65°	365.7	401.6	464.4	511.0	524.1
67.5°	320.6	359.6	422.3	465.1	477.4
70°	277.7	318.3	378.7	418.5	423.8
72.5°	231.8	273.1	334.3	359.6	359.6
75°	190.5	232.6	289.2	293.8	290.0
77.5°	145.4	192.0	228.7	219.6	210.4
80°	104.8	150.7	167.5	150.7	138.5
82.5°	70.4	109.4	101.0	80.3	71.1
85°	39.0	58.1	39.8	22.2	16.1
87.5°	14.5	13.0	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)