

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: P307988

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-CP125-W2A-U-2700K**

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: P307988  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-39-UNV-L82765-S-CP125-W2A-U-2700K  
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET  
Light Source: (168) 2700K 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**

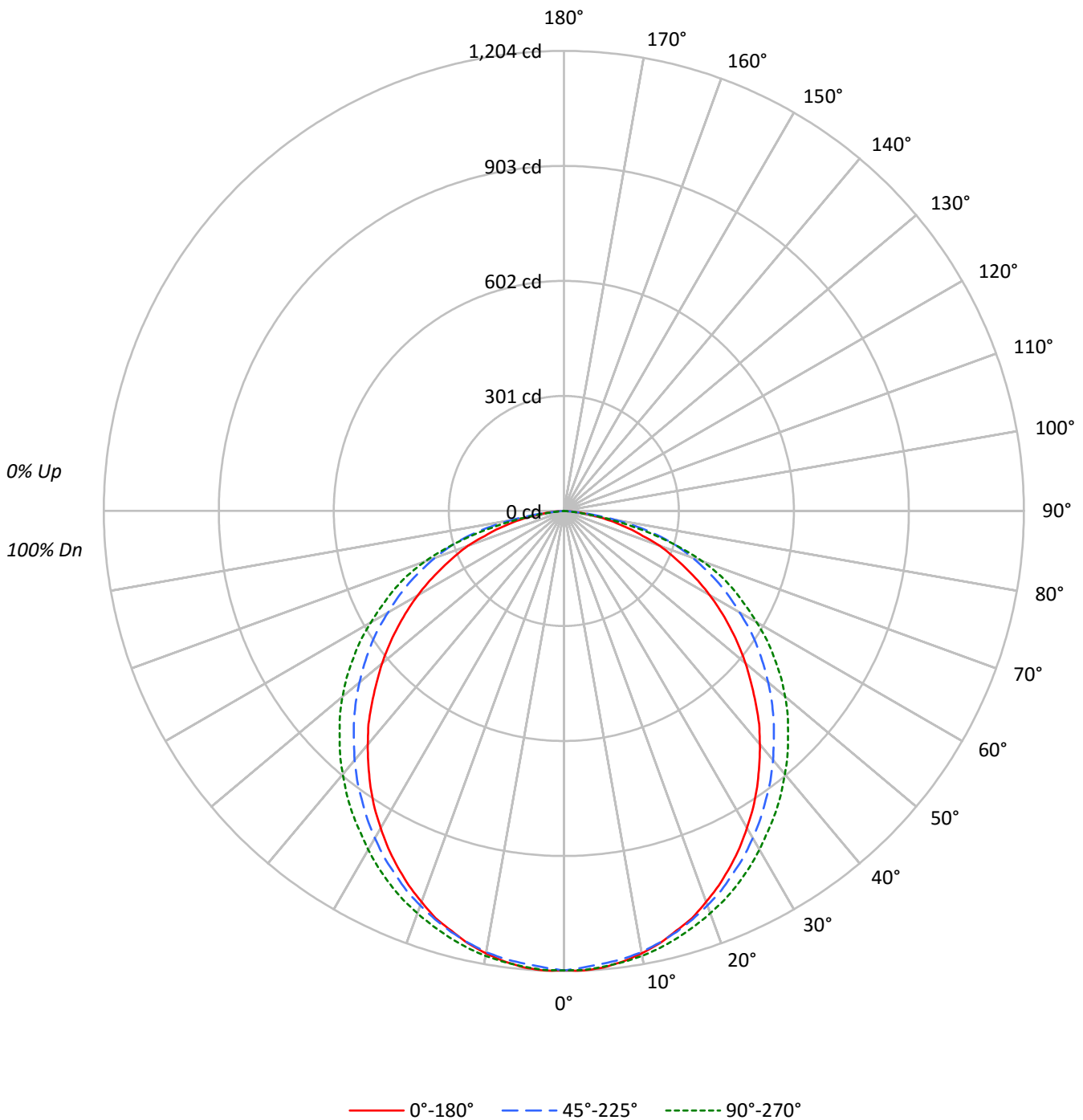
Lumens per Lamp: N/A  
Luminaire Lumens: 3368.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (A<sub>in</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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	3235	3235	3235
5°	3239	3212	3234
10°	3212	3203	3231
15°	3168	3177	3219
20°	3118	3147	3209
25°	3054	3109	3198
30°	2978	3072	3181
35°	2896	3028	3171
40°	2804	2992	3162
45°	2701	2955	3158
50°	2601	2922	3167
55°	2491	2899	3157
60°	2373	2858	3137
65°	2233	2849	3137
70°	2102	2825	3048
75°	1823	2760	2604
80°	1475	2225	1734
85°	979	772	516



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.5	3.4
10°-20°	323.1	9.6
20°-30°	484.6	14.4
30°-40°	578.1	17.2
40°-50°	597.6	17.7
50°-60°	545.6	16.2
60°-70°	429.4	12.7
70°-80°	250.0	7.4
80°-90°	46.1	1.4
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°	921.2	27.4
0°-40°	1499.3	44.5
0°-60°	2642.6	78.5
0°-90°	3368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1199	1196	1189	1199	1197	114
15°	1137	1139	1140	1156	1156	321
25°	1029	1034	1047	1072	1077	474
35°	882	893	922	957	965	551
45°	710	733	776	820	830	548
55°	531	559	618	663	673	475
65°	351	387	448	483	493	348
75°	175	217	266	260	250	186
85°	32	45	25	20	17	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1202.3	1202.3	1202.3	1202.3	1202.3
2.5°	1204.0	1200.7	1195.6	1204.0	1202.3
5°	1199.0	1195.6	1189.0	1199.0	1197.3
7.5°	1189.0	1185.6	1182.3	1192.3	1190.6
10°	1175.6	1173.9	1172.3	1184.0	1182.3
12.5°	1158.9	1158.9	1157.2	1170.6	1170.6
15°	1137.2	1138.9	1140.5	1155.6	1155.6
17.5°	1117.2	1115.5	1120.5	1137.2	1138.9
20°	1088.8	1092.1	1098.8	1118.8	1120.5
22.5°	1060.4	1063.7	1075.4	1095.4	1100.5
25°	1028.7	1033.7	1047.0	1072.1	1077.1
27.5°	995.3	1001.9	1020.3	1047.0	1052.0
30°	958.5	968.5	988.6	1018.6	1023.6
32.5°	921.8	931.8	956.8	986.9	993.6
35°	881.7	893.4	921.8	956.8	965.2
37.5°	840.0	855.0	888.4	923.4	933.5
40°	798.2	814.9	851.6	888.4	900.1
42.5°	756.5	773.2	813.2	855.0	866.7
45°	709.7	733.1	776.5	819.9	829.9
47.5°	664.6	689.7	738.1	781.5	794.9
50°	621.2	646.2	698.0	743.1	756.5
52.5°	576.1	602.8	657.9	704.7	716.4
55°	531.0	559.4	617.9	662.9	673.0
57.5°	485.9	516.0	576.1	619.5	631.2
60°	440.9	472.6	531.0	574.4	582.8
62.5°	395.8	429.2	489.3	527.7	536.0
65°	350.7	387.4	447.5	482.6	492.6
67.5°	307.3	344.0	402.4	435.8	444.2
70°	267.2	300.6	359.0	384.1	387.4
72.5°	217.1	258.8	315.6	329.0	320.6
75°	175.3	217.1	265.5	260.5	250.5
77.5°	133.6	175.3	207.1	190.4	177.0
80°	95.2	136.9	143.6	118.6	111.9
82.5°	61.8	95.2	80.2	61.8	50.1
85°	31.7	45.1	25.0	20.0	16.7
87.5°	10.0	6.7	3.3	3.3	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)