

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: P307782

Luminaire Tested: **14FCZ2-44-UNV-L82765-CP250-W2A-U-3000K**

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: P307782  
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: 14FCZ2-44-UNV-L82765-CP250-W2A-U-3000K  
Description: 1'X4' 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**

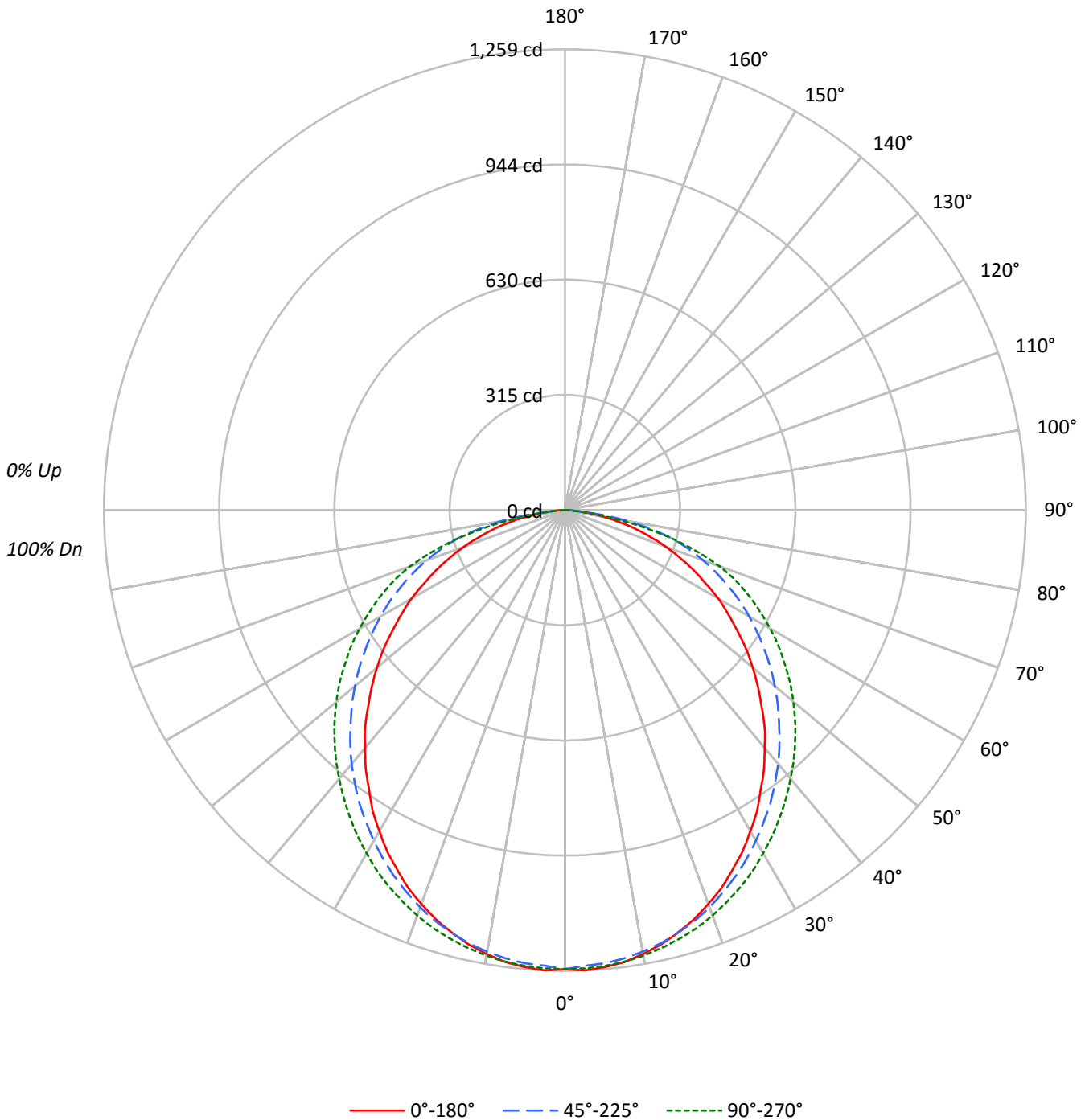
Lumens per Lamp: N/A  
Luminaire Lumens: 3641.0 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3375	3375	3375
5°	3386	3358	3377
10°	3365	3348	3379
15°	3329	3332	3377
20°	3280	3308	3376
25°	3218	3276	3372
30°	3148	3242	3365
35°	3064	3214	3363
40°	2983	3183	3368
45°	2892	3148	3386
50°	2807	3134	3409
55°	2700	3123	3439
60°	2604	3129	3487
65°	2471	3138	3541
70°	2319	3162	3539
75°	2102	3191	3199
80°	1723	2755	2276
85°	1278	1303	525



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.7	3.3
10°-20°	339.1	9.3
20°-30°	510.8	14.0
30°-40°	612.9	16.8
40°-50°	638.8	17.5
50°-60°	591.4	16.2
60°-70°	477.8	13.1
70°-80°	291.3	8.0
80°-90°	60.1	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°	968.5	26.6
0°-40°	1581.4	43.4
0°-60°	2811.7	77.2
0°-90°	3641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3641.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1254	1250	1243	1252	1250	119
15°	1195	1196	1196	1212	1212	337
25°	1084	1090	1103	1131	1136	500
35°	933	948	978	1014	1024	584
45°	760	783	827	874	890	587
55°	576	606	666	718	733	516
65°	388	426	493	542	556	384
75°	202	247	307	312	308	212
85°	41	62	42	24	17	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1254.3	1254.3	1254.3	1254.3	1254.3
2.5°	1259.2	1255.1	1246.2	1255.1	1253.5
5°	1253.5	1250.3	1243.0	1251.9	1250.3
7.5°	1245.4	1242.2	1235.7	1246.2	1244.6
10°	1231.6	1230.0	1225.1	1237.3	1236.5
12.5°	1215.4	1214.6	1212.1	1225.9	1225.1
15°	1195.1	1195.9	1195.9	1212.1	1212.1
17.5°	1172.3	1174.0	1177.2	1195.1	1197.5
20°	1145.5	1148.8	1155.3	1175.6	1178.8
22.5°	1117.9	1120.4	1130.1	1154.5	1157.7
25°	1083.8	1090.3	1103.3	1130.9	1135.8
27.5°	1051.4	1057.1	1074.9	1103.3	1111.4
30°	1013.2	1022.1	1043.3	1074.1	1083.0
32.5°	976.7	986.4	1010.8	1046.5	1054.6
35°	932.8	947.5	978.3	1014.0	1023.8
37.5°	893.1	906.9	941.8	980.7	992.1
40°	849.2	866.3	906.0	947.5	958.8
42.5°	808.6	824.9	867.9	910.1	925.5
45°	759.9	782.6	827.3	873.6	889.8
47.5°	715.3	738.0	789.1	838.7	853.3
50°	670.6	695.0	748.5	799.7	814.3
52.5°	624.3	650.3	707.9	759.1	776.1
55°	575.6	605.7	665.7	717.7	733.1
57.5°	529.3	560.2	624.3	677.1	692.5
60°	483.9	515.5	581.3	631.6	647.9
62.5°	433.5	470.9	539.1	588.6	600.8
65°	388.1	426.2	492.8	542.3	556.1
67.5°	340.2	381.6	448.2	493.6	506.6
70°	294.7	337.7	401.9	444.1	449.8
72.5°	246.0	289.8	354.8	381.6	381.6
75°	202.2	246.8	306.9	311.8	307.7
77.5°	154.3	203.8	242.7	233.0	223.3
80°	111.2	159.9	177.8	159.9	146.9
82.5°	74.7	116.1	107.2	85.2	75.5
85°	41.4	61.7	42.2	23.5	17.0
87.5°	15.4	13.8	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)