

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: P307751

Luminaire Tested: **14FCZ2-44-UNV-L82765-CA08-W2A-U-5500K**

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: P307751  
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-CA08-W2A-U-5500K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.08" ACRYLIC SHEET  
Light Source: (168) 5500K 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**

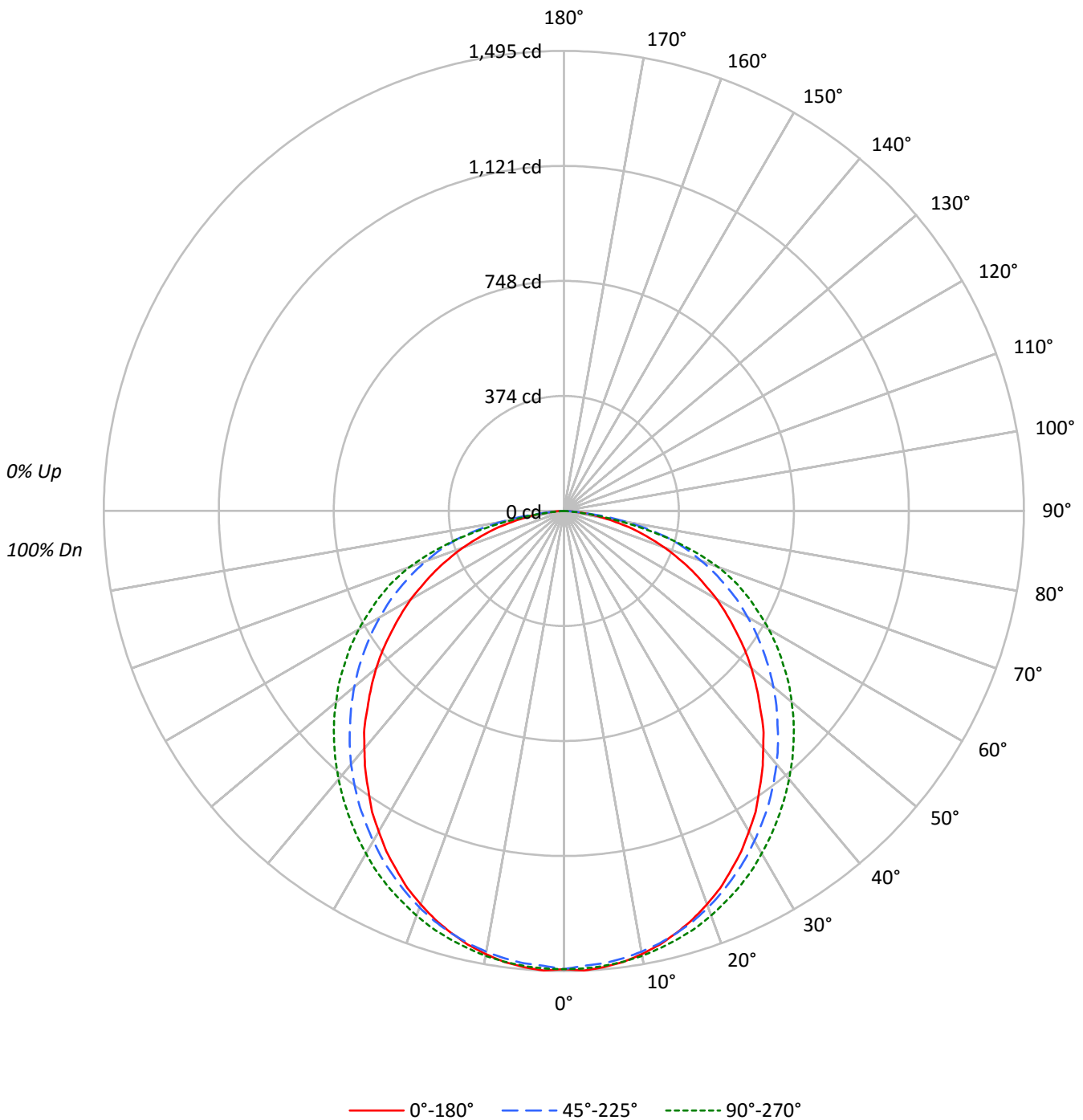
Lumens per Lamp: N/A  
Luminaire Lumens: 4322.0 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 39.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	4007	4007	4007
5°	4019	3986	4009
10°	3995	3974	4010
15°	3952	3955	4008
20°	3894	3927	4007
25°	3820	3889	4003
30°	3737	3848	3995
35°	3638	3815	3992
40°	3541	3778	3998
45°	3433	3737	4019
50°	3332	3720	4047
55°	3206	3707	4083
60°	3091	3714	4139
65°	2933	3725	4203
70°	2752	3753	4201
75°	2495	3788	3797
80°	2046	3271	2703
85°	1516	1547	624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.9	3.3
10°-20°	402.5	9.3
20°-30°	606.3	14.0
30°-40°	727.6	16.8
40°-50°	758.3	17.5
50°-60°	702.0	16.2
60°-70°	567.2	13.1
70°-80°	345.8	8.0
80°-90°	71.4	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°	1149.7	26.6
0°-40°	1877.2	43.4
0°-60°	3337.5	77.2
0°-90°	4322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4322.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1488	1484	1476	1486	1484	141
15°	1419	1420	1420	1439	1439	400
25°	1287	1294	1310	1342	1348	593
35°	1107	1125	1161	1204	1215	694
45°	902	929	982	1037	1056	697
55°	683	719	790	852	870	612
65°	461	506	585	644	660	455
75°	240	293	364	370	365	252
85°	49	73	50	28	20	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1488.9	1488.9	1488.9	1488.9	1488.9
2.5°	1494.7	1489.9	1479.3	1489.9	1488.0
5°	1488.0	1484.1	1475.5	1486.1	1484.1
7.5°	1478.3	1474.5	1466.8	1479.3	1477.4
10°	1462.0	1460.0	1454.2	1468.7	1467.7
12.5°	1442.7	1441.7	1438.8	1455.2	1454.2
15°	1418.6	1419.6	1419.6	1438.8	1438.8
17.5°	1391.6	1393.5	1397.4	1418.6	1421.5
20°	1359.8	1363.7	1371.4	1395.5	1399.3
22.5°	1327.0	1329.9	1341.5	1370.4	1374.3
25°	1286.6	1294.3	1309.7	1342.5	1348.2
27.5°	1248.0	1254.8	1276.0	1309.7	1319.3
30°	1202.7	1213.3	1238.4	1275.0	1285.6
32.5°	1159.4	1170.9	1199.8	1242.2	1251.9
35°	1107.3	1124.7	1161.3	1203.7	1215.2
37.5°	1060.1	1076.5	1117.9	1164.2	1177.7
40°	1008.0	1028.3	1075.5	1124.7	1138.2
42.5°	959.9	979.1	1030.2	1080.3	1098.6
45°	902.0	929.0	982.0	1037.0	1056.2
47.5°	849.0	876.0	936.7	995.5	1012.9
50°	796.0	824.9	888.5	949.3	966.6
52.5°	741.1	771.9	840.4	901.1	921.3
55°	683.3	718.9	790.2	851.9	870.2
57.5°	628.3	665.0	741.1	803.7	822.1
60°	574.4	612.0	690.0	749.8	769.0
62.5°	514.6	559.0	639.9	698.7	713.2
65°	460.7	506.0	585.0	643.8	660.1
67.5°	403.8	452.9	532.0	585.9	601.4
70°	349.8	400.9	477.0	527.2	533.9
72.5°	292.0	344.0	421.1	452.9	452.9
75°	240.0	293.0	364.3	370.1	365.2
77.5°	183.1	241.9	288.2	276.6	265.0
80°	132.0	189.9	211.1	189.9	174.4
82.5°	88.7	137.8	127.2	101.2	89.6
85°	49.1	73.2	50.1	27.9	20.2
87.5°	18.3	16.4	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)