

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: P307770

Luminaire Tested: **14FCZ2-44-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: P307770  
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-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**

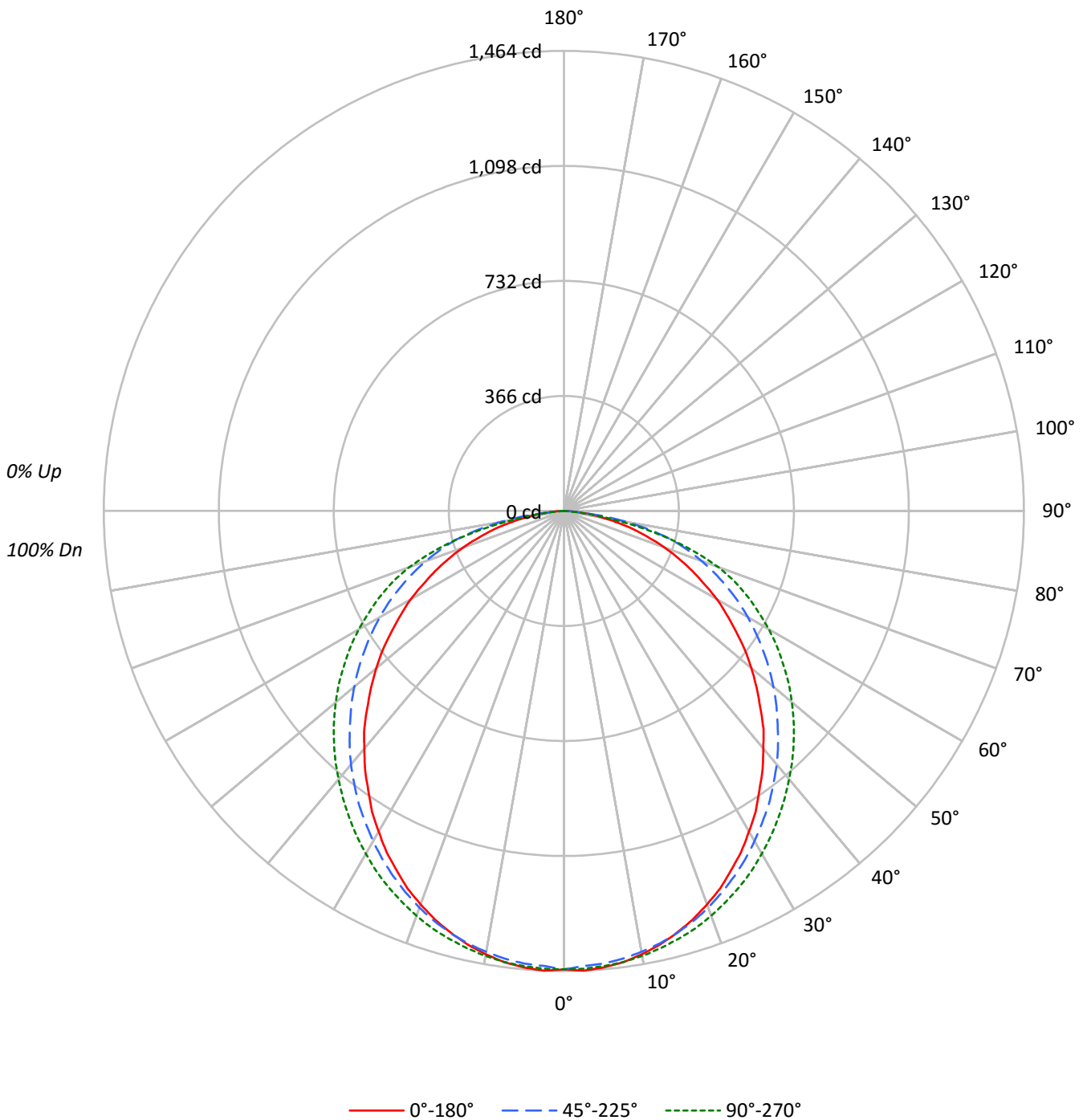
Lumens per Lamp: N/A  
Luminaire Lumens: 4234.0 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 39.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	3925	3925	3925
5°	3938	3904	3927
10°	3913	3893	3929
15°	3872	3874	3927
20°	3815	3847	3926
25°	3742	3809	3922
30°	3661	3770	3913
35°	3564	3737	3911
40°	3469	3701	3917
45°	3363	3661	3938
50°	3265	3644	3964
55°	3141	3632	4000
60°	3028	3638	4055
65°	2874	3649	4118
70°	2696	3677	4115
75°	2444	3711	3720
80°	2004	3205	2648
85°	1485	1516	611



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.0	3.3
10°-20°	394.3	9.3
20°-30°	593.9	14.0
30°-40°	712.7	16.8
40°-50°	742.9	17.5
50°-60°	687.7	16.2
60°-70°	555.7	13.1
70°-80°	338.8	8.0
80°-90°	69.9	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°	1126.2	26.6
0°-40°	1839.0	43.4
0°-60°	3269.6	77.2
0°-90°	4234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4234.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1458	1454	1445	1456	1454	138
15°	1390	1391	1391	1410	1410	392
25°	1260	1268	1283	1315	1321	581
35°	1085	1102	1138	1179	1190	680
45°	884	910	962	1016	1035	683
55°	669	704	774	835	852	600
65°	451	496	573	631	647	446
75°	235	287	357	362	358	247
85°	48	72	49	27	20	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1458.6	1458.6	1458.6	1458.6	1458.6
2.5°	1464.3	1459.6	1449.2	1459.6	1457.7
5°	1457.7	1453.9	1445.4	1455.8	1453.9
7.5°	1448.2	1444.5	1436.9	1449.2	1447.3
10°	1432.2	1430.3	1424.6	1438.8	1437.9
12.5°	1413.3	1412.4	1409.5	1425.6	1424.6
15°	1389.7	1390.7	1390.7	1409.5	1409.5
17.5°	1363.3	1365.2	1368.9	1389.7	1392.5
20°	1332.1	1335.9	1343.4	1367.0	1370.8
22.5°	1300.0	1302.9	1314.2	1342.5	1346.3
25°	1260.4	1267.9	1283.0	1315.1	1320.8
27.5°	1222.6	1229.2	1250.0	1283.0	1292.5
30°	1178.2	1188.6	1213.2	1249.0	1259.4
32.5°	1135.7	1147.1	1175.4	1216.9	1226.4
35°	1084.8	1101.8	1137.6	1179.2	1190.5
37.5°	1038.5	1054.6	1095.2	1140.5	1153.7
40°	987.5	1007.3	1053.6	1101.8	1115.0
42.5°	940.3	959.2	1009.2	1058.3	1076.3
45°	883.7	910.1	962.0	1015.8	1034.7
47.5°	831.7	858.2	917.7	975.3	992.2
50°	779.8	808.1	870.5	929.9	946.9
52.5°	726.0	756.2	823.3	882.7	902.6
55°	669.4	704.3	774.2	834.6	852.5
57.5°	615.5	651.4	726.0	787.4	805.3
60°	562.7	599.5	676.0	734.5	753.4
62.5°	504.1	547.6	626.9	684.5	698.6
65°	451.3	495.6	573.1	630.7	646.7
67.5°	395.6	443.7	521.1	574.0	589.1
70°	342.7	392.7	467.3	516.4	523.0
72.5°	286.1	337.0	412.6	443.7	443.7
75°	235.1	287.0	356.9	362.5	357.8
77.5°	179.4	237.0	282.3	271.0	259.6
80°	129.3	186.0	206.8	186.0	170.9
82.5°	86.9	135.0	124.6	99.1	87.8
85°	48.1	71.8	49.1	27.4	19.8
87.5°	17.9	16.0	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)