

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: P307765

Luminaire Tested: **14FCZ2-44-UNV-L82765-CP125-W2A-U-3500K**

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: P307765  
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-3500K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET  
Light Source: (168) 3500K 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**

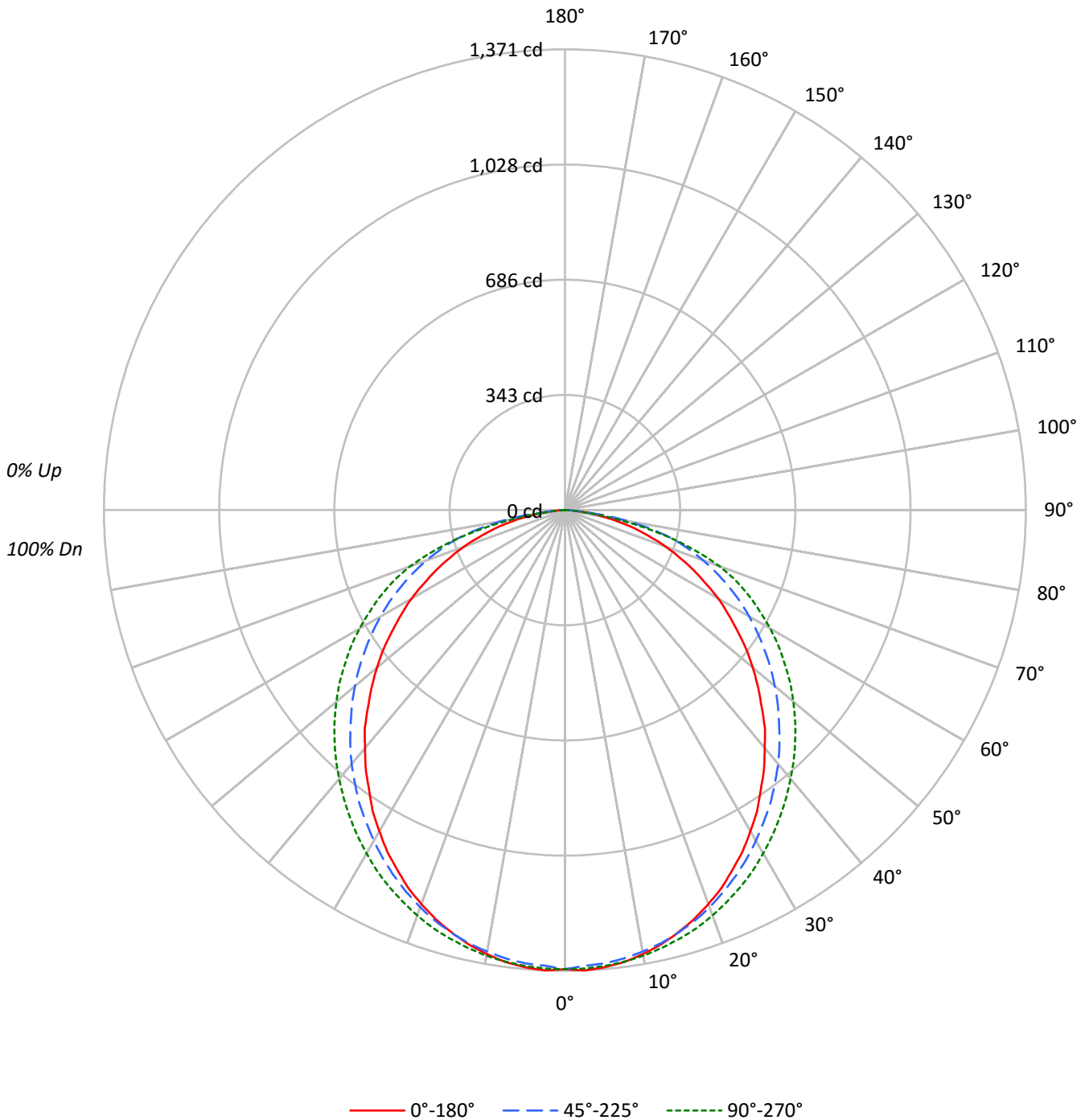
Lumens per Lamp: N/A  
Luminaire Lumens: 3965.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.5  
Input Voltage (V): NR  
Input Current (A<sub>in</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



TEST NUMBER: P307765

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-CP125-W2A-U-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P307765

CATALOG NUMBER: 14FC22-44-UNV-L82765-CP125-W2A-U-3500K

**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°	3676	3676	3676
5°	3687	3656	3678
10°	3665	3645	3679
15°	3626	3628	3677
20°	3572	3603	3676
25°	3505	3567	3673
30°	3429	3530	3665
35°	3337	3500	3663
40°	3249	3466	3668
45°	3149	3428	3688
50°	3057	3413	3713
55°	2941	3401	3746
60°	2836	3407	3797
65°	2691	3417	3856
70°	2525	3443	3854
75°	2288	3475	3484
80°	1877	3000	2479
85°	1392	1420	574



TEST NUMBER: P307765

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-CP125-W2A-U-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.3	3.3
10°-20°	369.2	9.3
20°-30°	556.2	14.0
30°-40°	667.5	16.8
40°-50°	695.7	17.5
50°-60°	644.0	16.2
60°-70°	520.4	13.1
70°-80°	317.3	8.0
80°-90°	65.5	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°	1054.7	26.6
0°-40°	1722.2	43.4
0°-60°	3061.9	77.2
0°-90°	3965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3965.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1365	1362	1354	1363	1362	130
15°	1301	1302	1302	1320	1320	367
25°	1180	1187	1202	1232	1237	544
35°	1016	1032	1065	1104	1115	636
45°	828	852	901	951	969	640
55°	627	660	725	782	798	562
65°	423	464	537	591	606	418
75°	220	269	334	340	335	231
85°	45	67	46	26	19	55
90°	0	0	0	0	0	



TEST NUMBER: P307765

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-CP125-W2A-U-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1366.0	1366.0	1366.0	1366.0	1366.0
2.5°	1371.3	1366.8	1357.1	1366.8	1365.1
5°	1365.1	1361.5	1353.6	1363.3	1361.5
7.5°	1356.2	1352.7	1345.6	1357.1	1355.3
10°	1341.2	1339.4	1334.1	1347.4	1346.5
12.5°	1323.5	1322.6	1320.0	1335.0	1334.1
15°	1301.4	1302.3	1302.3	1320.0	1320.0
17.5°	1276.7	1278.4	1282.0	1301.4	1304.1
20°	1247.5	1251.0	1258.1	1280.2	1283.7
22.5°	1217.4	1220.1	1230.7	1257.2	1260.7
25°	1180.3	1187.4	1201.5	1231.6	1236.9
27.5°	1144.9	1151.1	1170.6	1201.5	1210.4
30°	1103.4	1113.1	1136.1	1169.7	1179.4
32.5°	1063.6	1074.2	1100.7	1139.6	1148.5
35°	1015.8	1031.8	1065.4	1104.3	1114.9
37.5°	972.5	987.6	1025.6	1068.0	1080.4
40°	924.8	943.3	986.7	1031.8	1044.1
42.5°	880.6	898.3	945.1	991.1	1007.9
45°	827.5	852.3	900.9	951.3	969.0
47.5°	778.9	803.7	859.4	913.3	929.2
50°	730.3	756.8	815.2	870.9	886.8
52.5°	679.9	708.2	770.9	826.6	845.2
55°	626.8	659.5	725.0	781.6	798.4
57.5°	576.4	610.0	679.9	737.4	754.1
60°	526.9	561.4	633.0	687.8	705.5
62.5°	472.1	512.8	587.1	641.0	654.2
65°	422.6	464.2	536.7	590.6	605.6
67.5°	370.4	415.5	488.0	537.5	551.7
70°	320.9	367.8	437.6	483.6	489.8
72.5°	267.9	315.6	386.4	415.5	415.5
75°	220.1	268.8	334.2	339.5	335.1
77.5°	168.0	221.9	264.3	253.7	243.1
80°	121.1	174.2	193.6	174.2	160.0
82.5°	81.3	126.4	116.7	92.8	82.2
85°	45.1	67.2	46.0	25.6	18.6
87.5°	16.8	15.0	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)