

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: P307717

Luminaire Tested: **14FCZ2-39-UNV-L82765-CA125-W2A-U-6500K**

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: P307717  
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: 14FCZ2-39-UNV-L82765-CA125-W2A-U-6500K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" ACRYLIC SHEET  
Light Source: (168) 6500K 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**

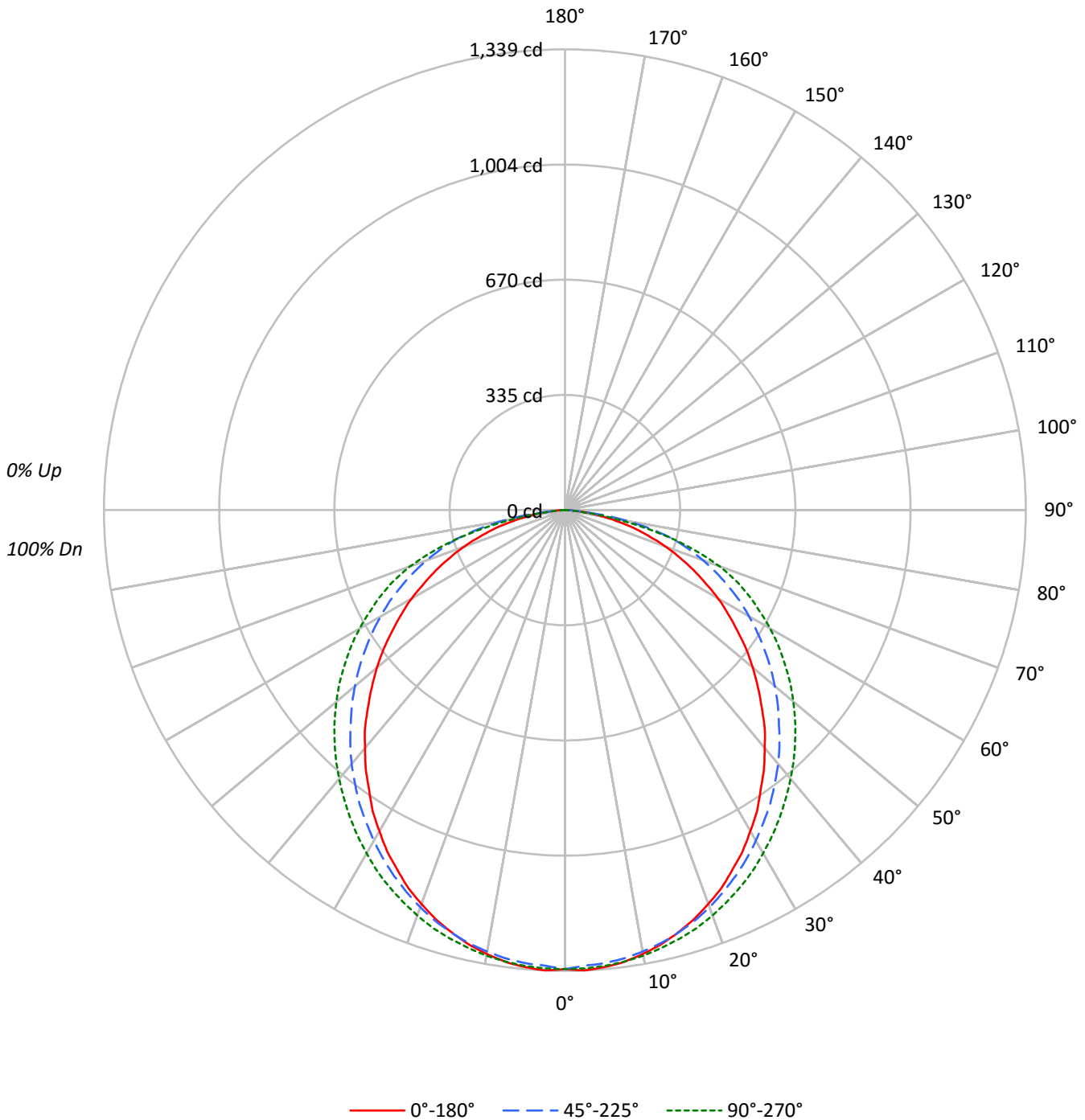
Lumens per Lamp: N/A  
Luminaire Lumens: 3872.0 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 34.8  
Input Voltage (V): NR  
Input Current (A<sub>in</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: P307717

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-CA125-W2A-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P307717

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-CA125-W2A-U-6500K

**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°	3589	3589	3589
5°	3601	3571	3592
10°	3579	3560	3593
15°	3541	3543	3591
20°	3489	3518	3590
25°	3422	3484	3586
30°	3348	3447	3579
35°	3259	3418	3576
40°	3172	3385	3582
45°	3075	3348	3601
50°	2985	3332	3625
55°	2872	3322	3658
60°	2770	3327	3708
65°	2628	3337	3766
70°	2466	3363	3763
75°	2235	3394	3402
80°	1833	2930	2422
85°	1359	1386	559



TEST NUMBER: P307717

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-CA125-W2A-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.2	3.3
10°-20°	360.6	9.3
20°-30°	543.2	14.0
30°-40°	651.8	16.8
40°-50°	679.4	17.5
50°-60°	628.9	16.2
60°-70°	508.2	13.1
70°-80°	309.8	8.0
80°-90°	64.0	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°	1030.0	26.6
0°-40°	1681.8	43.4
0°-60°	2990.0	77.2
0°-90°	3872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3872.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1333	1330	1322	1331	1330	127
15°	1271	1272	1272	1289	1289	358
25°	1153	1160	1173	1203	1208	531
35°	992	1008	1040	1078	1089	621
45°	808	832	880	929	946	625
55°	612	644	708	763	780	548
65°	413	453	524	577	591	408
75°	215	262	326	332	327	226
85°	44	66	45	25	18	54
90°	0	0	0	0	0	



TEST NUMBER: P307717

CATALOG NUMBER: 14FC22-39-UNV-L82765-CA125-W2A-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1333.9	1333.9	1333.9	1333.9	1333.9
2.5°	1339.1	1334.8	1325.3	1334.8	1333.1
5°	1333.1	1329.6	1321.8	1331.3	1329.6
7.5°	1324.4	1321.0	1314.1	1325.3	1323.6
10°	1309.7	1308.0	1302.8	1315.8	1314.9
12.5°	1292.5	1291.6	1289.0	1303.7	1302.8
15°	1270.9	1271.8	1271.8	1289.0	1289.0
17.5°	1246.7	1248.4	1251.9	1270.9	1273.5
20°	1218.2	1221.7	1228.6	1250.2	1253.6
22.5°	1188.9	1191.5	1201.8	1227.7	1231.2
25°	1152.6	1159.5	1173.3	1202.7	1207.9
27.5°	1118.1	1124.1	1143.1	1173.3	1182.0
30°	1077.5	1087.0	1109.4	1142.2	1151.7
32.5°	1038.6	1049.0	1074.9	1112.9	1121.5
35°	992.0	1007.6	1040.4	1078.4	1088.7
37.5°	949.7	964.4	1001.5	1043.0	1055.0
40°	903.1	921.2	963.5	1007.6	1019.6
42.5°	859.9	877.2	922.9	967.8	984.2
45°	808.1	832.3	879.8	929.0	946.3
47.5°	760.6	784.8	839.2	891.9	907.4
50°	713.1	739.1	796.0	850.4	866.0
52.5°	663.9	691.6	752.9	807.3	825.4
55°	612.1	644.1	708.0	763.2	779.6
57.5°	562.9	595.7	663.9	720.1	736.5
60°	514.6	548.2	618.2	671.7	689.0
62.5°	461.0	500.8	573.3	625.9	638.9
65°	412.7	453.3	524.1	576.7	591.4
67.5°	361.8	405.8	476.6	524.9	538.7
70°	313.4	359.2	427.4	472.3	478.3
72.5°	261.6	308.2	377.3	405.8	405.8
75°	215.0	262.5	326.4	331.5	327.2
77.5°	164.0	216.7	258.1	247.8	237.4
80°	118.3	170.1	189.1	170.1	156.3
82.5°	79.4	123.5	114.0	90.7	80.3
85°	44.0	65.6	44.9	25.0	18.1
87.5°	16.4	14.7	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)