Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P307764

Luminaire Tested: **14FCZ2-44-UNV-L82765-CP125-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.

Report Generated By E9811737 / USPTCWHP6067151

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P307764
	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-3000K
Description:	1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET
Light Source:	(168) 3000K TUNABLE CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Luminaire Equipment:

Sample No.	Condition	Description
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:	3833.0 lumens
Efficiency:	N/A
Efficacy:	100.9 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

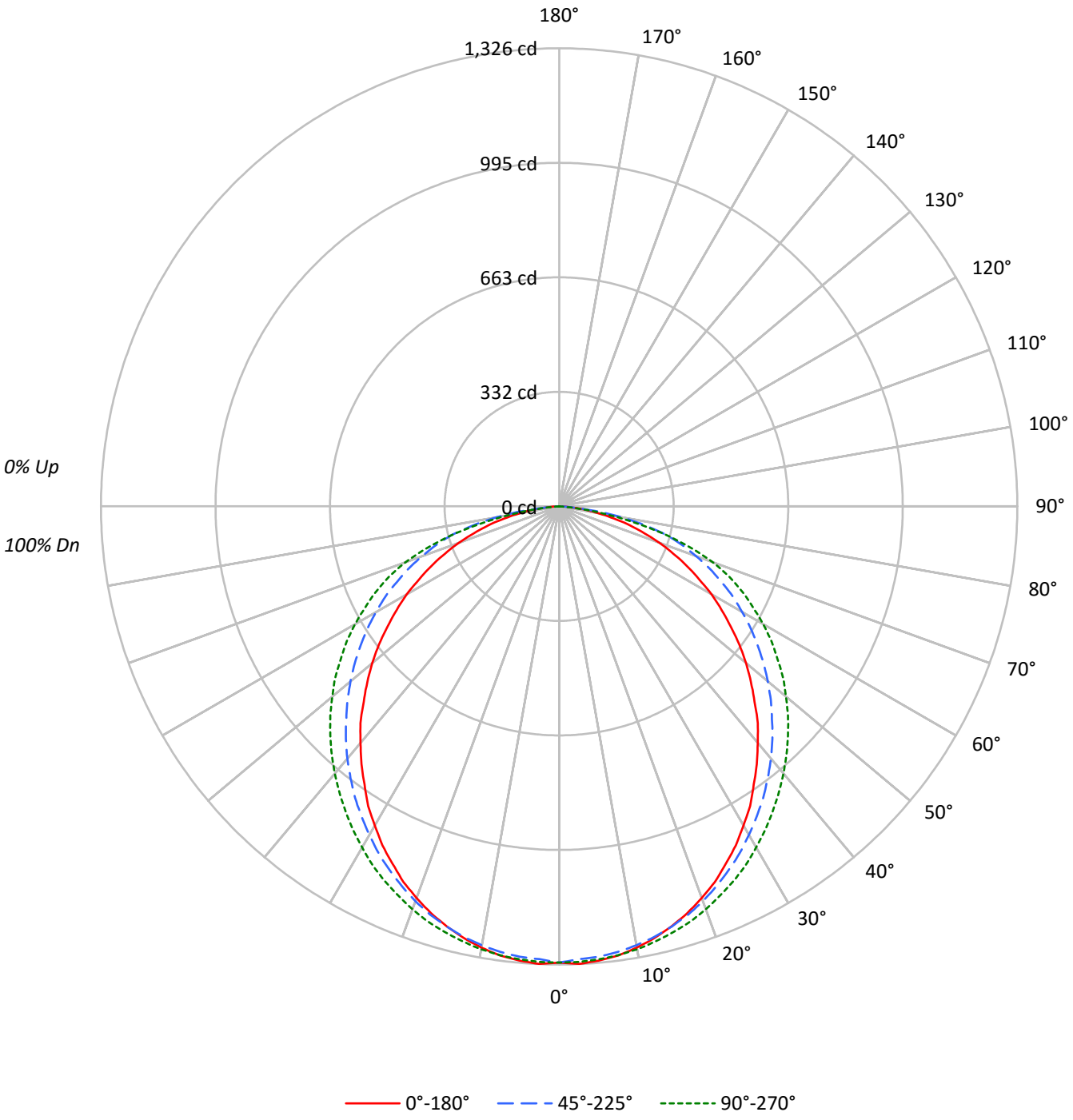
Input Watts (W):	38
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P307764
CATALOG NUMBER: 14FCZ2-44-UNV-L82765-CP125-W2A-U-3000K

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P307764
CATALOG NUMBER: 14FCZ2-44-UNV-L82765-CP125-W2A-U-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	3553	3553	3553
5°	3565	3535	3555
10°	3543	3524	3557
15°	3505	3507	3555
20°	3454	3483	3554
25°	3388	3449	3550
30°	3314	3413	3543
35°	3226	3383	3541
40°	3140	3351	3546
45°	3044	3314	3565
50°	2956	3299	3589
55°	2843	3288	3621
60°	2742	3294	3670
65°	2601	3303	3728
70°	2441	3329	3725
75°	2213	3359	3368
80°	1815	2901	2397
85°	1346	1371	553

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P307764
CATALOG NUMBER: 14FCZ2-44-UNV-L82765-CP125-W2A-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.3
10°-20°	356.9	9.3
20°-30°	537.7	14.0
30°-40°	645.2	16.8
40°-50°	672.5	17.5
50°-60°	622.6	16.2
60°-70°	503.0	13.1
70°-80°	306.7	8.0
80°-90°	63.3	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°	1019.6	26.6
0°-40°	1664.8	43.4
0°-60°	2959.9	77.2
0°-90°	3833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1320	1316	1308	1318	1316	125
15°	1258	1259	1259	1276	1276	355
25°	1141	1148	1162	1191	1196	526
35°	982	997	1030	1068	1078	615
45°	800	824	871	920	937	618
55°	606	638	701	756	772	543
65°	408	449	519	571	586	404
75°	213	260	323	328	324	223
85°	44	65	44	25	18	54
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P307764
CATALOG NUMBER: 14FCZ2-44-UNV-L82765-CP125-W2A-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1320.5*	1320.5	1320.5	1320.5	1320.5
2.5°	*1325.6*	*1321.3*	*1311.9*	*1321.3*	*1319.6*
5°	*1319.6*	1316.2	1308.5	1317.9	1316.2
7.5°	*1311.1*	1307.7	1300.8	1311.9	1310.2
10°	*1296.5*	1294.8	1289.7	1302.5	1301.7
12.5°	*1279.5*	1278.6	1276.0	1290.6	1289.7
15°	*1258.1*	1258.9	1258.9	1276.0	1276.0
17.5°	*1234.2*	1235.9	1239.3	1258.1	1260.7
20°	*1206.0*	1209.4	1216.2	1237.6	1241.0
22.5°	*1176.9*	1179.5	1189.7	1215.4	1218.8
25°	*1141.0*	1147.8	1161.5	1190.6	1195.7
27.5°	*1106.8*	1112.8	1131.6	1161.5	1170.1
30°	*1066.6*	1076.0	1098.3	1130.7	1140.1
32.5°	*1028.2*	1038.4	1064.1	1101.7	1110.2
35°	*982.0*	997.4	1029.9	1067.5	1077.8
37.5°	*940.1*	954.7	991.4	1032.5	1044.4
40°	*894.0*	911.9	953.8	997.4	1009.4
42.5°	*851.3*	868.4	913.7	958.1	974.3
45°	*800.0*	823.9	870.9	919.6	936.7
47.5°	*753.0*	776.9	830.7	882.9	898.3
50°	*706.0*	731.6	788.0	841.9	857.2
52.5°	*657.2*	684.6	745.3	799.1	817.1
55°	*606.0*	637.6	700.8	755.5	771.8
57.5°	*557.3*	589.7	657.2	712.8	729.0
60°	*509.4*	542.7	612.0	664.9	682.0
62.5°	*456.4*	495.7	567.5	619.6	632.5
65°	*408.5*	448.7	518.8	570.9	585.5
67.5°	*358.1*	401.7	471.8	519.6	533.3
70°	*310.2*	355.5	423.1	467.5	473.5
72.5°	*259.0*	305.1	373.5	401.7	401.7
75°	*212.8*	259.8	323.1	328.2	323.9
77.5°	*162.4*	214.5	255.5	245.3	235.0
80°	*117.1*	168.4	187.2	168.4	154.7
82.5°	*78.6*	122.2	112.8	89.7	79.5
85°	*43.6*	65.0	44.4	24.8	17.9
87.5°	*16.2*	14.5	4.3	4.3	4.3
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)