

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: P307315

Luminaire Tested: **14FCZ2-25-UNV-L82765-RDP-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: P307315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-UNV-L82765-RDP-CP125-W2A-U-3500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 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: 1436.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

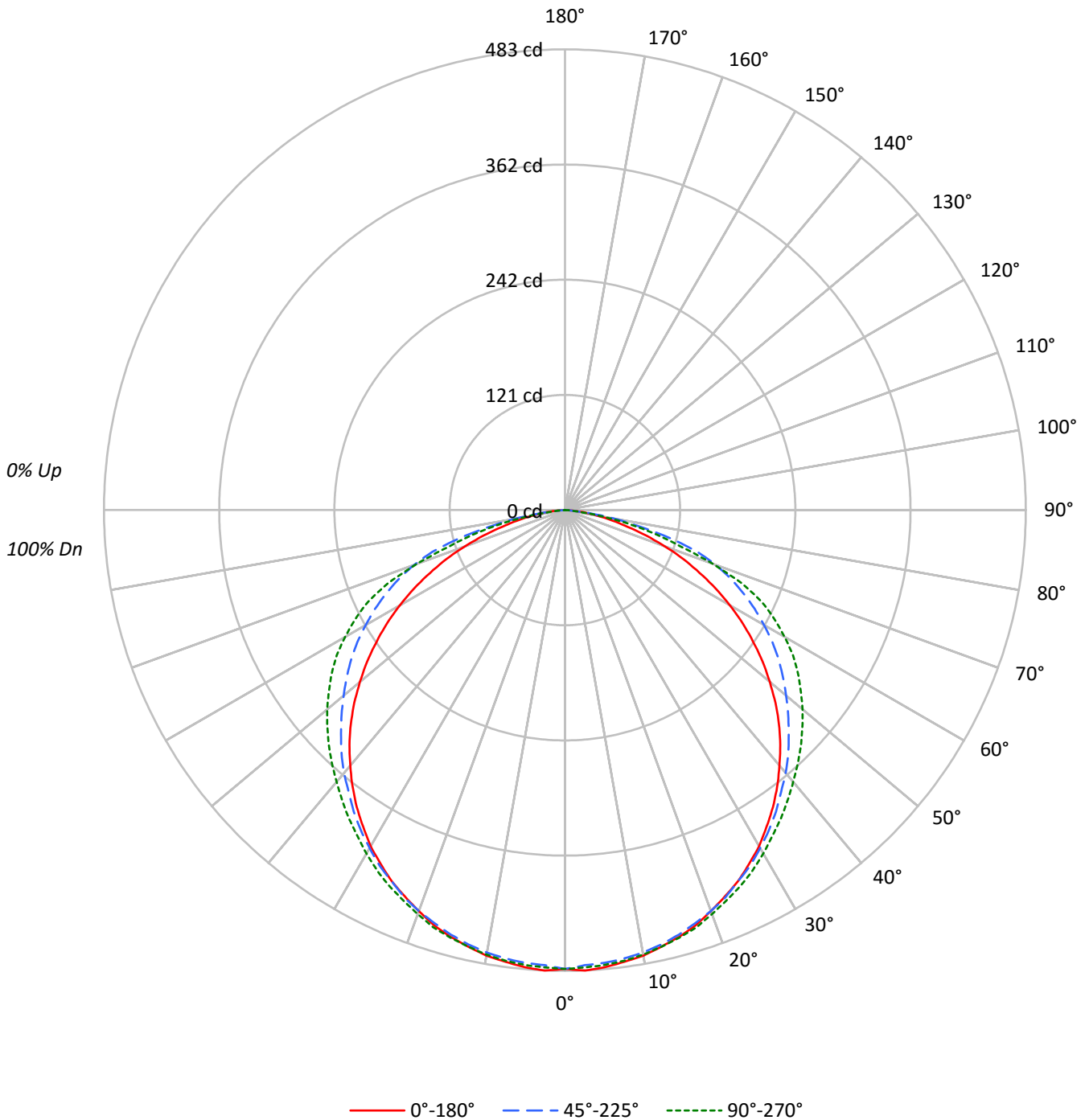
Input Watts (W): 19.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307315

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-RDP-CP125-W2A-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P307315

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-RDP-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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1294	1294	1294
5°	1299	1287	1293
10°	1296	1287	1293
15°	1290	1284	1293
20°	1281	1281	1291
25°	1275	1275	1292
30°	1265	1271	1292
35°	1249	1267	1296
40°	1229	1264	1307
45°	1208	1263	1331
50°	1173	1267	1361
55°	1131	1283	1399
60°	1074	1297	1430
65°	992	1314	1449
70°	882	1323	1297
75°	711	1189	1038
80°	556	834	677
85°	380	241	173



TEST NUMBER: P307315

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-RDP-CP125-W2A-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	3.2
10°-20°	130.6	9.1
20°-30°	198.9	13.8
30°-40°	242.2	16.9
40°-50°	257.0	17.9
50°-60°	242.5	16.9
60°-70°	195.8	13.6
70°-80°	106.2	7.4
80°-90°	17.2	1.2
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°	375.0	26.1
0°-40°	617.2	43.0
0°-60°	1116.8	77.8
0°-90°	1436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	481	481	481	481	481	
5°	481	480	476	480	479	46
15°	463	462	461	464	464	131
25°	429	428	429	434	435	198
35°	380	382	386	394	395	238
45°	317	322	332	344	350	244
55°	241	251	274	292	298	215
65°	156	175	206	223	228	154
75°	68	100	114	103	100	75
85°	12	14	8	7	6	16
90°	0	0	0	0	0	



TEST NUMBER: P307315

CATALOG NUMBER: 14FC22-25-UNV-L82765-RDP-CP125-W2A-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	481.0	481.0	481.0	481.0	481.0
2.5°	483.2	481.0	477.6	481.0	479.8
5°	481.0	479.8	476.5	479.8	478.7
7.5°	477.6	477.6	474.2	476.5	476.5
10°	474.2	473.1	470.9	474.2	473.1
12.5°	468.6	467.5	466.4	469.7	468.6
15°	463.0	461.9	460.8	464.1	464.1
17.5°	456.3	455.2	454.0	458.5	458.5
20°	447.3	447.3	447.3	451.8	450.7
22.5°	438.4	438.4	439.5	444.0	442.8
25°	429.4	428.3	429.4	433.9	435.0
27.5°	418.2	419.3	420.4	424.9	426.0
30°	407.0	408.1	409.2	414.8	415.9
32.5°	393.5	395.7	398.0	404.7	404.7
35°	380.1	382.3	385.7	393.5	394.6
37.5°	365.5	367.7	372.2	381.2	383.4
40°	349.8	353.1	359.9	368.8	372.2
42.5°	334.1	338.6	346.4	356.5	361.0
45°	317.3	321.8	331.8	344.2	349.8
47.5°	299.3	304.9	317.3	333.0	337.5
50°	280.3	288.1	302.7	319.5	325.1
52.5°	261.2	270.2	288.1	306.1	311.7
55°	241.0	251.1	273.5	291.5	298.2
57.5°	220.9	232.1	257.9	276.9	283.6
60°	199.6	213.0	241.0	260.1	265.7
62.5°	178.3	194.0	224.2	243.3	247.8
65°	155.8	174.9	206.3	223.1	227.6
67.5°	134.5	157.0	188.3	200.7	200.7
70°	112.1	136.8	168.2	171.5	164.8
72.5°	89.7	117.7	145.7	133.4	127.8
75°	68.4	99.8	114.4	103.1	99.8
77.5°	51.6	80.7	80.7	74.0	71.8
80°	35.9	61.7	53.8	47.1	43.7
82.5°	23.5	34.8	28.0	22.4	19.1
85°	12.3	13.5	7.8	6.7	5.6
87.5°	4.5	2.2	1.1	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)