

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: P307307

Luminaire Tested: **14FCZ2-25-UNV-L82765-RDP-CA125-W2A-U-4000K**

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: P307307
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-CA125-W2A-U-4000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET
Light Source: (168) 4000K 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: 1497.0 lumens
Efficiency: N/A
Efficacy: 75.6 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

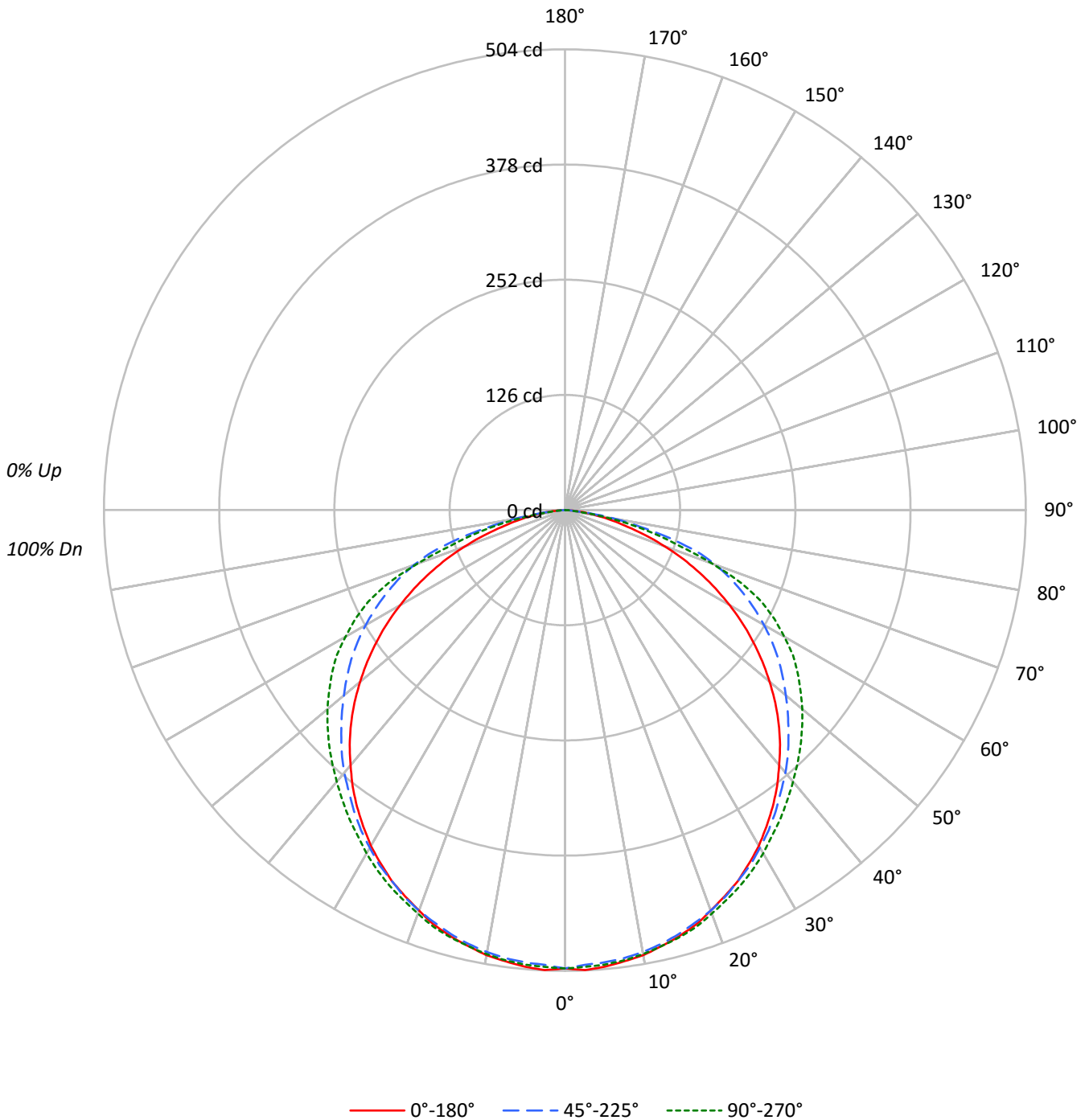
Input Watts (W): 19.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1349	1349	1349
5°	1354	1342	1348
10°	1351	1341	1348
15°	1345	1338	1348
20°	1335	1335	1345
25°	1329	1329	1347
30°	1318	1326	1347
35°	1302	1321	1351
40°	1281	1318	1363
45°	1259	1316	1388
50°	1223	1321	1419
55°	1179	1338	1459
60°	1119	1352	1491
65°	1035	1369	1511
70°	920	1379	1352
75°	741	1239	1081
80°	580	869	707
85°	398	253	179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	3.2
10°-20°	136.2	9.1
20°-30°	207.3	13.8
30°-40°	252.5	16.9
40°-50°	267.9	17.9
50°-60°	252.9	16.9
60°-70°	204.1	13.6
70°-80°	110.7	7.4
80°-90°	17.9	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°	390.9	26.1
0°-40°	643.4	43.0
0°-60°	1164.2	77.8
0°-90°	1497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	501	501	501	501	501	
5°	501	500	497	500	499	48
15°	483	482	480	484	484	136
25°	448	446	448	452	454	206
35°	396	398	402	410	411	248
45°	331	335	346	359	365	255
55°	251	262	285	304	311	224
65°	162	182	215	233	237	161
75°	71	104	119	108	104	78
85°	13	14	8	7	6	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	501.4	501.4	501.4	501.4	501.4
2.5°	503.7	501.4	497.9	501.4	500.2
5°	501.4	500.2	496.7	500.2	499.0
7.5°	497.9	497.9	494.4	496.7	496.7
10°	494.4	493.2	490.9	494.4	493.2
12.5°	488.5	487.4	486.2	489.7	488.5
15°	482.7	481.5	480.3	483.9	483.9
17.5°	475.7	474.5	473.3	478.0	478.0
20°	466.3	466.3	466.3	471.0	469.8
22.5°	457.0	457.0	458.1	462.8	461.6
25°	447.6	446.5	447.6	452.3	453.5
27.5°	435.9	437.1	438.3	442.9	444.1
30°	424.2	425.4	426.6	432.4	433.6
32.5°	410.2	412.6	414.9	421.9	421.9
35°	396.2	398.5	402.0	410.2	411.4
37.5°	381.0	383.3	388.0	397.4	399.7
40°	364.6	368.1	375.2	384.5	388.0
42.5°	348.3	353.0	361.1	371.7	376.3
45°	330.7	335.4	345.9	358.8	364.6
47.5°	312.0	317.9	330.7	347.1	351.8
50°	292.2	300.4	315.6	333.1	338.9
52.5°	272.3	281.7	300.4	319.1	324.9
55°	251.3	261.8	285.2	303.9	310.9
57.5°	230.2	241.9	268.8	288.7	295.7
60°	208.0	222.1	251.3	271.1	277.0
62.5°	185.8	202.2	233.7	253.6	258.3
65°	162.5	182.3	215.0	232.6	237.3
67.5°	140.2	163.6	196.3	209.2	209.2
70°	116.9	142.6	175.3	178.8	171.8
72.5°	93.5	122.7	151.9	139.1	133.2
75°	71.3	104.0	119.2	107.5	104.0
77.5°	53.8	84.1	84.1	77.1	74.8
80°	37.4	64.3	56.1	49.1	45.6
82.5°	24.5	36.2	29.2	23.4	19.9
85°	12.9	14.0	8.2	7.0	5.8
87.5°	4.7	2.3	1.2	2.3	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)