

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: P307321

Luminaire Tested: **14FCZ2-25-UNV-L82765-RDP-CP125-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: P307321
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-6500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB 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: 1536.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

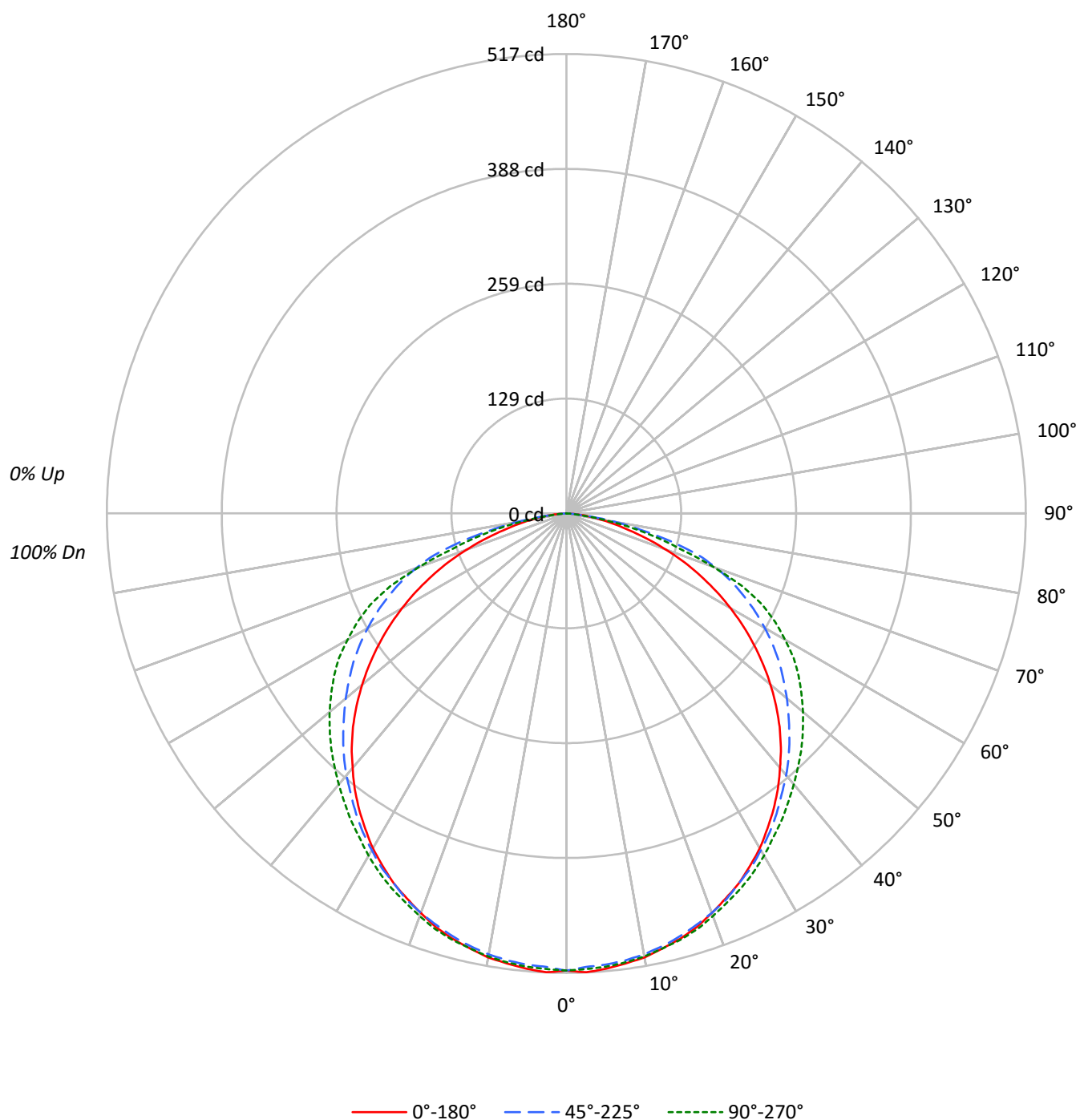
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1384	1384	1384
5°	1390	1377	1383
10°	1386	1376	1383
15°	1380	1373	1383
20°	1370	1370	1381
25°	1364	1364	1382
30°	1353	1360	1382
35°	1335	1355	1387
40°	1314	1352	1398
45°	1292	1351	1424
50°	1255	1356	1456
55°	1209	1373	1497
60°	1149	1387	1530
65°	1061	1405	1550
70°	943	1415	1387
75°	760	1272	1109
80°	595	893	725
85°	408	259	185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	3.2
10°-20°	139.7	9.1
20°-30°	212.7	13.8
30°-40°	259.1	16.9
40°-50°	274.9	17.9
50°-60°	259.4	16.9
60°-70°	209.5	13.6
70°-80°	113.6	7.4
80°-90°	18.4	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°	401.1	26.1
0°-40°	660.2	43.0
0°-60°	1194.5	77.8
0°-90°	1536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	514	514	514	514	514	
5°	514	513	510	513	512	49
15°	495	494	493	496	496	140
25°	459	458	459	464	465	211
35°	406	409	412	421	422	254
45°	339	344	355	368	374	261
55°	258	269	293	312	319	230
65°	167	187	221	239	243	165
75°	73	107	122	110	107	80
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°	514.4	514.4	514.4	514.4	514.4
2.5°	516.8	514.4	510.8	514.4	513.2
5°	514.4	513.2	509.6	513.2	512.0
7.5°	510.8	510.8	507.3	509.6	509.6
10°	507.3	506.1	503.7	507.3	506.1
12.5°	501.3	500.1	498.9	502.5	501.3
15°	495.3	494.1	492.9	496.5	496.5
17.5°	488.1	486.9	485.7	490.5	490.5
20°	478.5	478.5	478.5	483.3	482.1
22.5°	468.9	468.9	470.1	474.9	473.7
25°	459.3	458.1	459.3	464.1	465.3
27.5°	447.3	448.5	449.7	454.5	455.7
30°	435.3	436.5	437.7	443.7	444.9
32.5°	420.9	423.3	425.7	432.9	432.9
35°	406.5	408.9	412.5	420.9	422.1
37.5°	390.9	393.3	398.1	407.7	410.1
40°	374.1	377.7	384.9	394.5	398.1
42.5°	357.4	362.2	370.5	381.3	386.1
45°	339.4	344.2	355.0	368.1	374.1
47.5°	320.2	326.2	339.4	356.2	361.0
50°	299.8	308.2	323.8	341.8	347.8
52.5°	279.4	289.0	308.2	327.4	333.4
55°	257.8	268.6	292.6	311.8	319.0
57.5°	236.2	248.2	275.8	296.2	303.4
60°	213.5	227.8	257.8	278.2	284.2
62.5°	190.7	207.5	239.8	260.2	265.0
65°	166.7	187.1	220.6	238.6	243.4
67.5°	143.9	167.9	201.5	214.7	214.7
70°	119.9	146.3	179.9	183.5	176.3
72.5°	95.9	125.9	155.9	142.7	136.7
75°	73.1	106.7	122.3	110.3	106.7
77.5°	55.2	86.3	86.3	79.1	76.7
80°	38.4	66.0	57.6	50.4	46.8
82.5°	25.2	37.2	30.0	24.0	20.4
85°	13.2	14.4	8.4	7.2	6.0
87.5°	4.8	2.4	1.2	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)