

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: P307319

Luminaire Tested: **14FCZ2-25-UNV-L82765-RDP-CP125-W2A-U-5500K**

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: P307319
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-5500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 5500K 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: 1529.0 lumens
Efficiency: N/A
Efficacy: 75.7 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

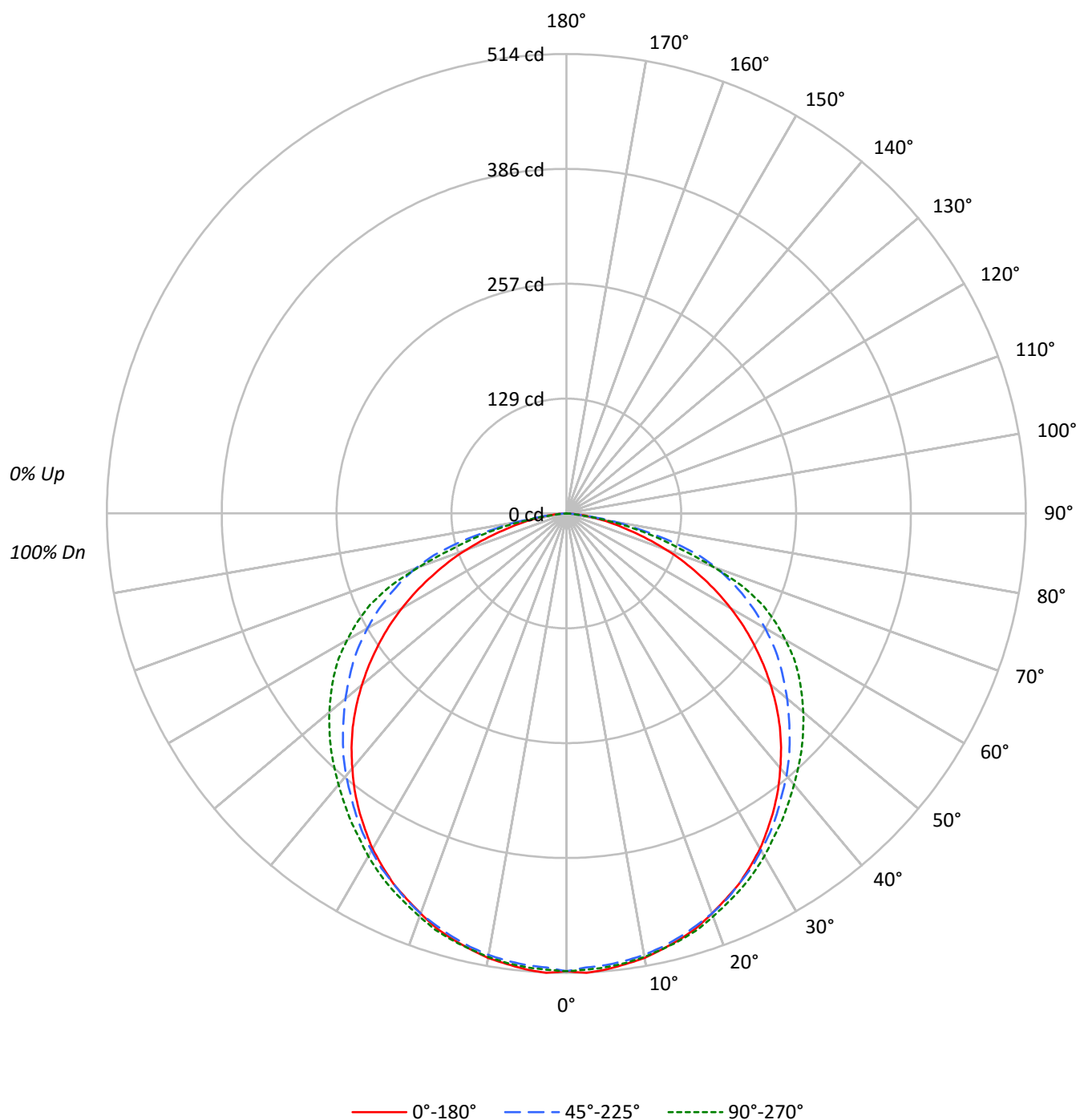
Input Watts (W): 20.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1378	1378	1378
5°	1383	1370	1377
10°	1380	1370	1376
15°	1373	1367	1377
20°	1364	1364	1374
25°	1358	1358	1375
30°	1346	1354	1376
35°	1329	1349	1380
40°	1308	1346	1392
45°	1286	1345	1417
50°	1249	1349	1449
55°	1204	1367	1490
60°	1144	1381	1523
65°	1056	1398	1543
70°	939	1409	1381
75°	757	1266	1104
80°	592	888	722
85°	404	259	185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	3.2
10°-20°	139.1	9.1
20°-30°	211.8	13.8
30°-40°	257.9	16.9
40°-50°	273.6	17.9
50°-60°	258.3	16.9
60°-70°	208.5	13.6
70°-80°	113.1	7.4
80°-90°	18.3	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°	399.3	26.1
0°-40°	657.2	43.0
0°-60°	1189.1	77.8
0°-90°	1529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	512	512	512	512	512	
5°	512	511	507	511	510	49
15°	493	492	491	494	494	139
25°	457	456	457	462	463	210
35°	405	407	411	419	420	253
45°	338	343	353	366	372	260
55°	257	267	291	310	318	229
65°	166	186	220	238	242	164
75°	73	106	122	110	106	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°	512.1	512.1	512.1	512.1	512.1
2.5°	514.5	512.1	508.5	512.1	510.9
5°	512.1	510.9	507.3	510.9	509.7
7.5°	508.5	508.5	504.9	507.3	507.3
10°	504.9	503.7	501.4	504.9	503.7
12.5°	499.0	497.8	496.6	500.2	499.0
15°	493.0	491.8	490.6	494.2	494.2
17.5°	485.8	484.6	483.5	488.2	488.2
20°	476.3	476.3	476.3	481.1	479.9
22.5°	466.7	466.7	467.9	472.7	471.5
25°	457.2	456.0	457.2	462.0	463.2
27.5°	445.3	446.4	447.6	452.4	453.6
30°	433.3	434.5	435.7	441.7	442.9
32.5°	419.0	421.4	423.8	430.9	430.9
35°	404.7	407.1	410.6	419.0	420.2
37.5°	389.1	391.5	396.3	405.9	408.2
40°	372.4	376.0	383.2	392.7	396.3
42.5°	355.7	360.5	368.9	379.6	384.4
45°	337.8	342.6	353.3	366.5	372.4
47.5°	318.7	324.7	337.8	354.5	359.3
50°	298.4	306.8	322.3	340.2	346.2
52.5°	278.1	287.7	306.8	325.9	331.9
55°	256.6	267.4	291.3	310.4	317.5
57.5°	235.2	247.1	274.6	294.8	302.0
60°	212.5	226.8	256.6	276.9	282.9
62.5°	189.8	206.5	238.7	259.0	263.8
65°	165.9	186.2	219.6	237.5	242.3
67.5°	143.2	167.1	200.5	213.7	213.7
70°	119.4	145.6	179.1	182.6	175.5
72.5°	95.5	125.3	155.2	142.1	136.1
75°	72.8	106.2	121.8	109.8	106.2
77.5°	54.9	85.9	85.9	78.8	76.4
80°	38.2	65.7	57.3	50.1	46.6
82.5°	25.1	37.0	29.8	23.9	20.3
85°	13.1	14.3	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)