

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: P307366

Luminaire Tested: **14FCZ2-29-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: P307366
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: 14FCZ2-29-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: 1836.0 lumens
Efficiency: N/A
Efficacy: 73.7 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

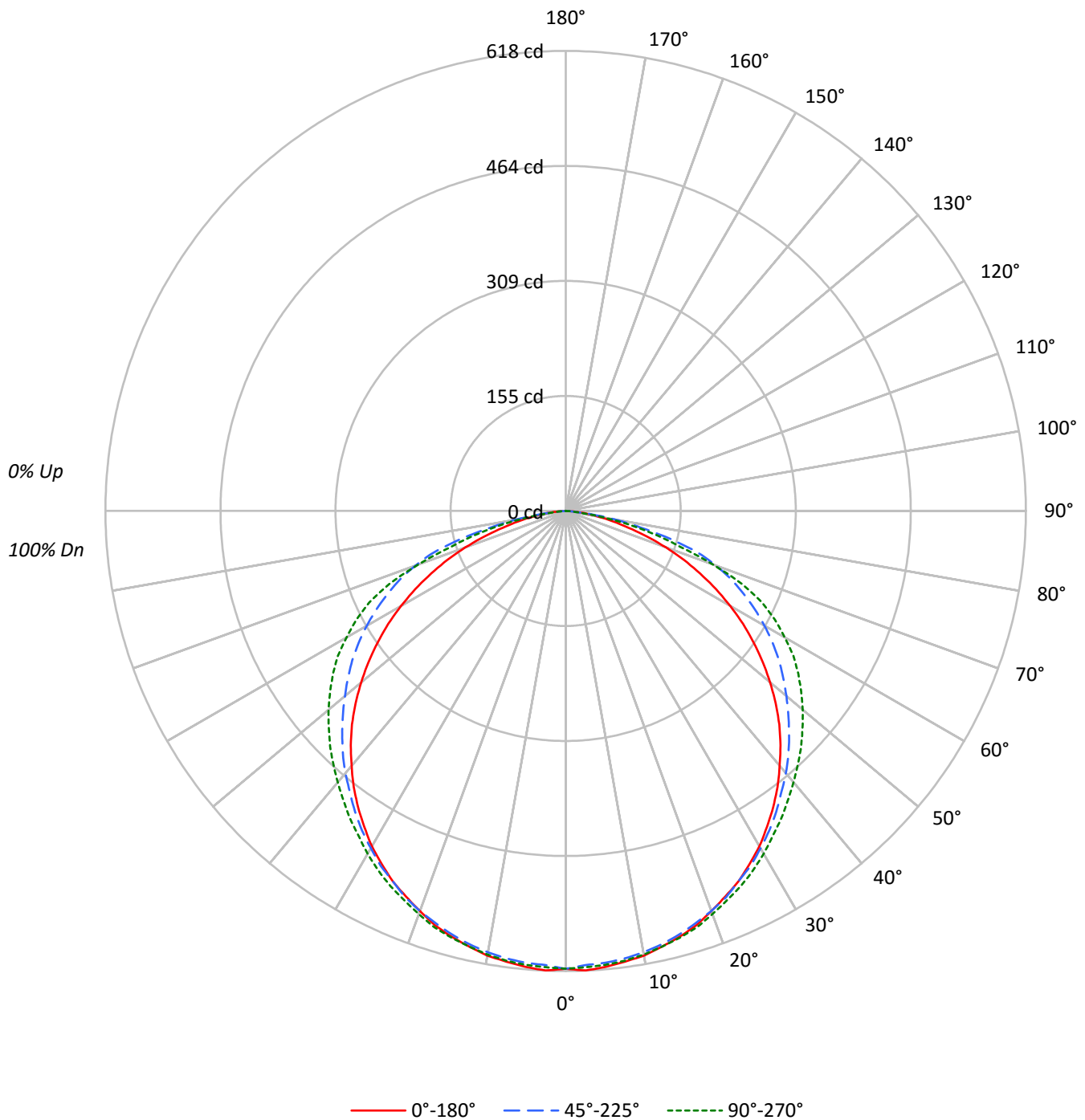
Input Watts (W): 24.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307366

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P307366

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-6500K

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°	1655	1655	1655
5°	1661	1646	1653
10°	1657	1645	1653
15°	1649	1641	1653
20°	1638	1638	1650
25°	1630	1630	1651
30°	1617	1626	1652
35°	1596	1620	1658
40°	1571	1616	1672
45°	1544	1615	1702
50°	1500	1620	1740
55°	1446	1641	1789
60°	1373	1659	1828
65°	1268	1679	1853
70°	1127	1692	1658
75°	909	1520	1327
80°	711	1066	866
85°	488	309	222



TEST NUMBER: P307366

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	3.2
10°-20°	167.0	9.1
20°-30°	254.3	13.8
30°-40°	309.7	16.9
40°-50°	328.6	17.9
50°-60°	310.1	16.9
60°-70°	250.4	13.6
70°-80°	135.8	7.4
80°-90°	22.0	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°	479.5	26.1
0°-40°	789.2	43.0
0°-60°	1427.8	77.8
0°-90°	1836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	615	614	609	614	612	58
15°	592	591	589	593	593	167
25°	549	548	549	555	556	253
35°	486	489	493	503	505	304
45°	406	411	424	440	447	312
55°	308	321	350	373	381	275
65°	199	224	264	285	291	197
75°	87	128	146	132	128	96
85°	16	17	10	9	7	20
90°	0	0	0	0	0	



TEST NUMBER: P307366

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	614.9	614.9	614.9	614.9	614.9
2.5°	617.8	614.9	610.6	614.9	613.5
5°	614.9	613.5	609.2	613.5	612.1
7.5°	610.6	610.6	606.3	609.2	609.2
10°	606.3	604.9	602.0	606.3	604.9
12.5°	599.2	597.7	596.3	600.6	599.2
15°	592.0	590.6	589.1	593.4	593.4
17.5°	583.4	582.0	580.5	586.3	586.3
20°	571.9	571.9	571.9	577.7	576.2
22.5°	560.5	560.5	561.9	567.6	566.2
25°	549.0	547.6	549.0	554.7	556.2
27.5°	534.7	536.1	537.5	543.3	544.7
30°	520.3	521.8	523.2	530.4	531.8
32.5°	503.1	506.0	508.9	517.5	517.5
35°	485.9	488.8	493.1	503.1	504.6
37.5°	467.3	470.2	475.9	487.4	490.2
40°	447.2	451.5	460.1	471.6	475.9
42.5°	427.1	432.9	442.9	455.8	461.6
45°	405.6	411.4	424.3	440.0	447.2
47.5°	382.7	389.9	405.6	425.7	431.4
50°	358.3	368.4	387.0	408.5	415.7
52.5°	334.0	345.4	368.4	391.3	398.5
55°	308.2	321.1	349.7	372.7	381.3
57.5°	282.4	296.7	329.7	354.0	362.6
60°	255.1	272.3	308.2	332.5	339.7
62.5°	227.9	248.0	286.7	311.0	316.8
65°	199.2	223.6	263.7	285.2	291.0
67.5°	172.0	200.7	240.8	256.6	256.6
70°	143.3	174.9	215.0	219.3	210.7
72.5°	114.7	150.5	186.3	170.6	163.4
75°	87.4	127.6	146.2	131.9	127.6
77.5°	65.9	103.2	103.2	94.6	91.7
80°	45.9	78.8	68.8	60.2	55.9
82.5°	30.1	44.4	35.8	28.7	24.4
85°	15.8	17.2	10.0	8.6	7.2
87.5°	5.7	2.9	1.4	2.9	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)