

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: P307361

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CP125-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: P307361
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-4000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB 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: 1754.0 lumens
Efficiency: N/A
Efficacy: 72.8 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

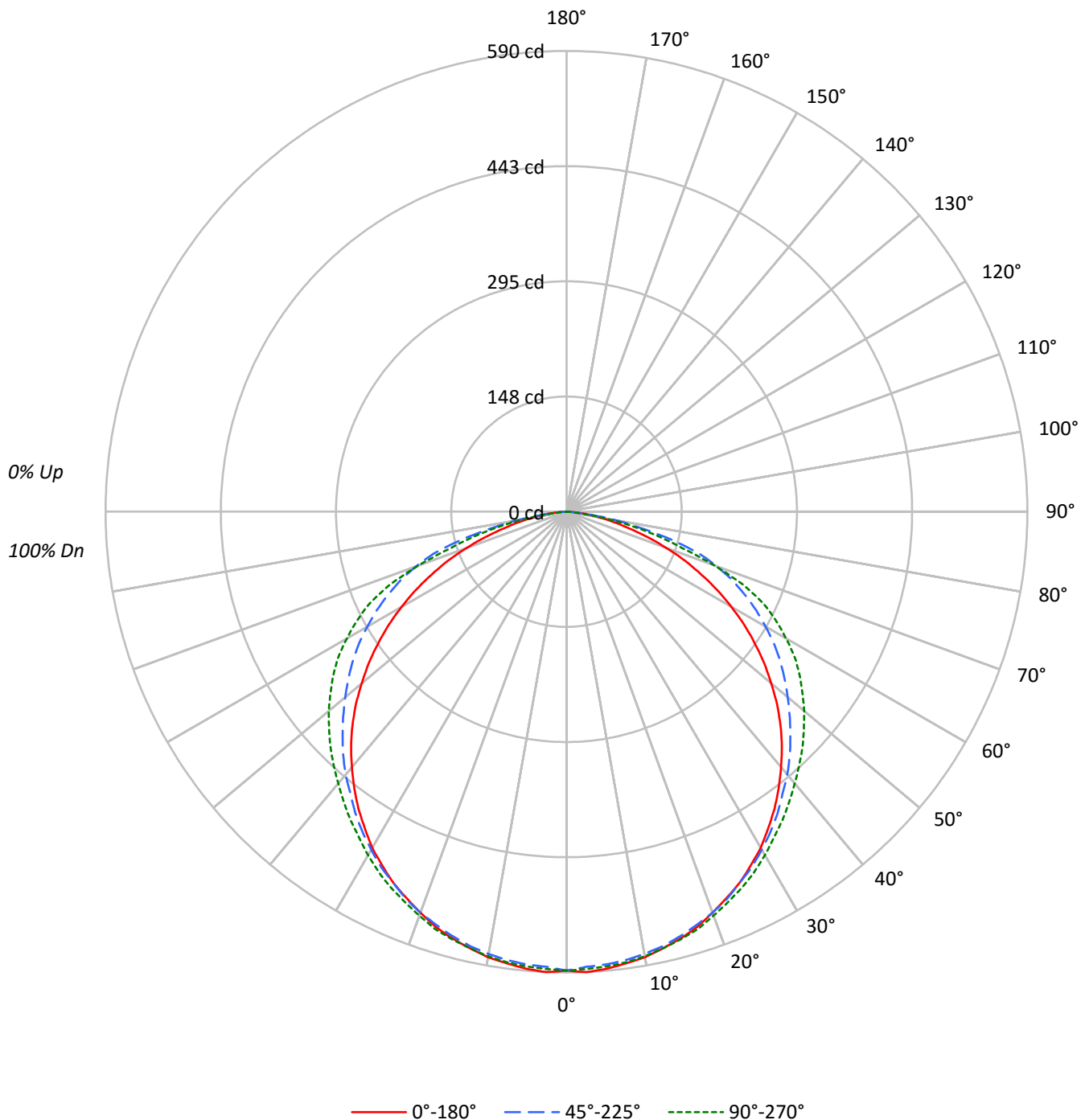
Input Watts (W): 24.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307361

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P307361

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-4000K

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°	1581	1581	1581
5°	1587	1572	1579
10°	1583	1571	1579
15°	1575	1568	1579
20°	1565	1565	1576
25°	1557	1557	1578
30°	1545	1553	1578
35°	1525	1548	1583
40°	1501	1544	1597
45°	1475	1542	1626
50°	1433	1548	1662
55°	1381	1567	1709
60°	1312	1584	1746
65°	1212	1605	1770
70°	1077	1616	1584
75°	868	1452	1267
80°	679	1018	828
85°	466	296	210



TEST NUMBER: P307361

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	3.2
10°-20°	159.5	9.1
20°-30°	242.9	13.8
30°-40°	295.9	16.9
40°-50°	313.9	17.9
50°-60°	296.2	16.9
60°-70°	239.2	13.6
70°-80°	129.8	7.4
80°-90°	21.0	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°	458.1	26.1
0°-40°	753.9	43.0
0°-60°	1364.0	77.8
0°-90°	1754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	588	586	582	586	585	56
15°	566	564	563	567	567	160
25°	524	523	524	530	531	241
35°	464	467	471	481	482	290
45°	388	393	405	420	427	298
55°	294	307	334	356	364	263
65°	190	214	252	272	278	189
75°	84	122	140	126	122	91
85°	15	16	10	8	7	19
90°	0	0	0	0	0	



TEST NUMBER: P307361

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	587.5	587.5	587.5	587.5	587.5
2.5°	590.2	587.5	583.4	587.5	586.1
5°	587.5	586.1	582.0	586.1	584.7
7.5°	583.4	583.4	579.2	582.0	582.0
10°	579.2	577.9	575.1	579.2	577.9
12.5°	572.4	571.0	569.7	573.8	572.4
15°	565.5	564.2	562.8	566.9	566.9
17.5°	557.3	556.0	554.6	560.1	560.1
20°	546.4	546.4	546.4	551.9	550.5
22.5°	535.4	535.4	536.8	542.3	540.9
25°	524.5	523.1	524.5	529.9	531.3
27.5°	510.8	512.1	513.5	519.0	520.4
30°	497.1	498.5	499.8	506.7	508.0
32.5°	480.6	483.4	486.1	494.3	494.3
35°	464.2	467.0	471.1	480.6	482.0
37.5°	446.4	449.2	454.6	465.6	468.3
40°	427.2	431.4	439.6	450.5	454.6
42.5°	408.1	413.5	423.1	435.5	440.9
45°	387.5	393.0	405.3	420.4	427.2
47.5°	365.6	372.5	387.5	406.7	412.2
50°	342.3	351.9	369.7	390.3	397.1
52.5°	319.1	330.0	351.9	373.8	380.7
55°	294.4	306.7	334.1	356.0	364.3
57.5°	269.8	283.5	315.0	338.2	346.5
60°	243.7	260.2	294.4	317.7	324.5
62.5°	217.7	236.9	273.9	297.2	302.6
65°	190.3	213.6	252.0	272.5	278.0
67.5°	164.3	191.7	230.1	245.1	245.1
70°	136.9	167.1	205.4	209.5	201.3
72.5°	109.5	143.8	178.0	163.0	156.1
75°	83.5	121.9	139.7	126.0	121.9
77.5°	63.0	98.6	98.6	90.4	87.6
80°	43.8	75.3	65.7	57.5	53.4
82.5°	28.8	42.5	34.2	27.4	23.3
85°	15.1	16.4	9.6	8.2	6.8
87.5°	5.5	2.7	1.4	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)