

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: P732724

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-29-RDP-B2750-W2D-CP187-4000K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

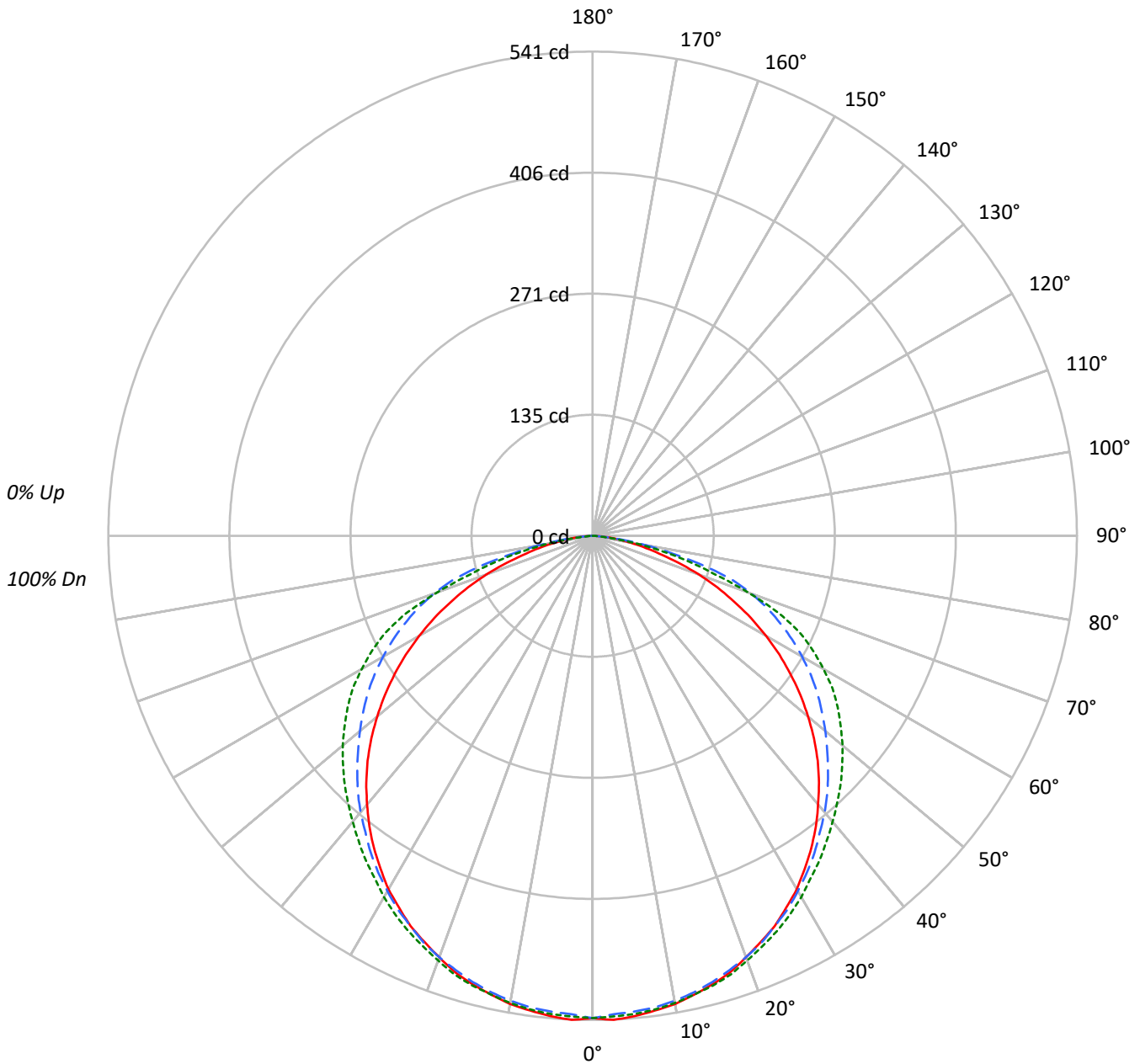
Lumens per Lamp: N/A  
Luminaire Lumens: 1609.0 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P732724

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CP187-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732724

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CP187-4000K

**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	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°	1521	1521	1521
5°	1527	1513	1520
10°	1523	1513	1519
15°	1516	1509	1520
20°	1506	1506	1517
25°	1499	1499	1518
30°	1487	1494	1519
35°	1468	1489	1524
40°	1444	1486	1537
45°	1419	1484	1564
50°	1379	1490	1600
55°	1329	1509	1644
60°	1262	1525	1681
65°	1166	1544	1703
70°	1037	1556	1523
75°	836	1397	1219
80°	653	982	797
85°	450	285	204



TEST NUMBER: P732724

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CP187-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	3.2
10°-20°	146.3	9.1
20°-30°	222.8	13.8
30°-40°	271.4	16.9
40°-50°	287.9	17.9
50°-60°	271.8	16.9
60°-70°	219.4	13.6
70°-80°	119.0	7.4
80°-90°	19.3	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°	420.2	26.1
0°-40°	691.6	43.0
0°-60°	1251.3	77.8
0°-90°	1609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1609.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	539	538	534	538	536	51
15°	519	518	516	520	520	146
25°	481	480	481	486	487	222
35°	426	428	432	441	442	266
45°	356	360	372	386	392	274
55°	270	281	307	327	334	241
65°	175	196	231	250	255	173
75°	77	112	128	116	112	84
85°	14	15	9	8	6	18
90°	0	0	0	0	0	



TEST NUMBER: P732724

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CP187-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	538.9	538.9	538.9	538.9	538.9
2.5°	541.4	538.9	535.1	538.9	537.7
5°	538.9	537.7	533.8	537.7	536.4
7.5°	535.1	535.1	531.4	533.8	533.8
10°	531.4	530.1	527.7	531.4	530.1
12.5°	525.0	523.8	522.6	526.3	525.0
15°	518.7	517.5	516.3	520.1	520.1
17.5°	511.2	510.0	508.7	513.8	513.8
20°	501.2	501.2	501.2	506.3	505.0
22.5°	491.2	491.2	492.4	497.5	496.2
25°	481.2	479.9	481.2	486.1	487.3
27.5°	468.5	469.8	471.0	476.1	477.3
30°	456.1	457.3	458.5	464.8	466.1
32.5°	441.0	443.4	445.9	453.4	453.4
35°	425.9	428.3	432.2	441.0	442.2
37.5°	409.6	412.0	417.1	427.1	429.6
40°	391.9	395.7	403.3	413.3	417.1
42.5°	374.3	379.4	388.2	399.4	404.5
45°	355.5	360.4	371.8	385.7	391.9
47.5°	335.3	341.7	355.5	373.1	378.2
50°	314.1	322.9	339.2	358.0	364.3
52.5°	292.7	302.7	322.9	342.9	349.2
55°	270.1	281.3	306.6	326.6	334.1
57.5°	247.4	260.1	288.9	310.3	317.8
60°	223.6	238.7	270.1	291.5	297.8
62.5°	199.7	217.3	251.3	272.5	277.6
65°	174.6	196.0	231.1	250.0	255.0
67.5°	150.7	175.8	211.1	224.8	224.8
70°	125.6	153.2	188.5	192.2	184.6
72.5°	100.5	132.0	163.4	149.5	143.2
75°	76.7	111.8	128.1	115.6	111.8
77.5°	57.7	90.4	90.4	82.8	80.4
80°	40.2	69.1	60.4	52.8	49.0
82.5°	26.3	39.0	31.4	25.1	21.4
85°	13.9	15.1	8.8	7.5	6.3
87.5°	5.1	2.5	1.2	2.5	1.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)