

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: P732714

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732714  
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-CA08-4000K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

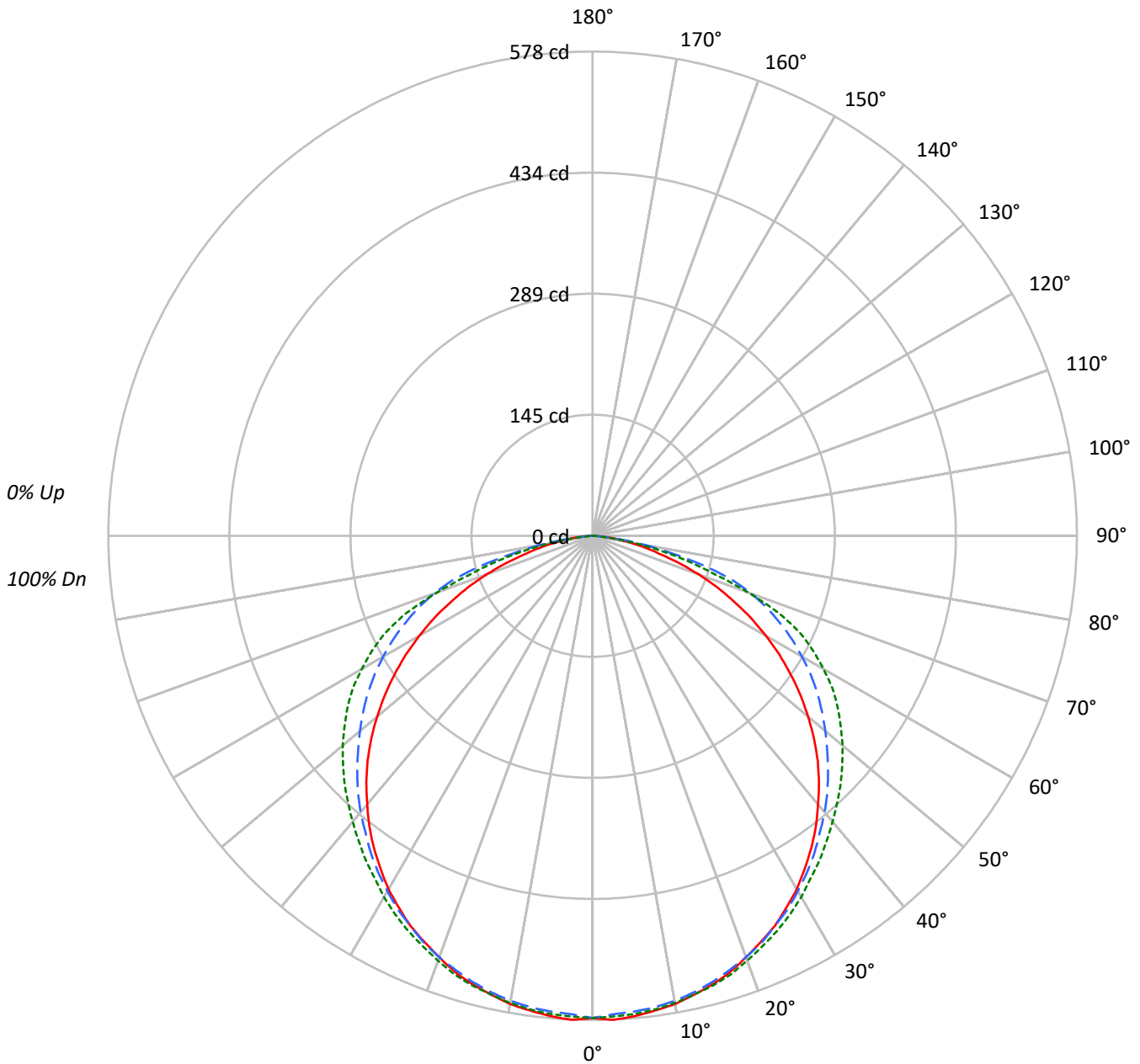
Lumens per Lamp: N/A  
Luminaire Lumens: 1719.0 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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: P732714

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA08-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732714

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA08-4000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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°	1625	1625	1625
5°	1631	1616	1624
10°	1627	1616	1623
15°	1620	1612	1624
20°	1608	1608	1621
25°	1601	1601	1621
30°	1588	1597	1623
35°	1568	1591	1628
40°	1542	1587	1642
45°	1516	1586	1671
50°	1474	1591	1709
55°	1420	1612	1757
60°	1349	1629	1796
65°	1246	1649	1819
70°	1108	1661	1627
75°	893	1493	1302
80°	697	1048	850
85°	479	304	217



TEST NUMBER: P732714

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA08-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.5	3.2
10°-20°	156.3	9.1
20°-30°	238.1	13.8
30°-40°	290.0	16.9
40°-50°	307.6	17.9
50°-60°	290.3	16.9
60°-70°	234.4	13.6
70°-80°	127.2	7.4
80°-90°	20.6	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°	448.9	26.1
0°-40°	738.9	43.0
0°-60°	1336.8	77.8
0°-90°	1719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1719.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	576	574	570	574	573	55
15°	554	553	552	556	556	156
25°	514	513	514	519	521	237
35°	455	458	462	471	472	284
45°	380	385	397	412	419	292
55°	288	300	328	349	357	258
65°	186	209	247	267	272	185
75°	82	119	137	124	119	89
85°	15	16	9	8	7	19
90°	0	0	0	0	0	



TEST NUMBER: P732714

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA08-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	575.7	575.7	575.7	575.7	575.7
2.5°	578.4	575.7	571.6	575.7	574.4
5°	575.7	574.4	570.3	574.4	573.1
7.5°	571.6	571.6	567.7	570.3	570.3
10°	567.7	566.4	563.7	567.7	566.4
12.5°	560.9	559.6	558.3	562.3	560.9
15°	554.2	552.9	551.6	555.7	555.7
17.5°	546.1	544.8	543.5	548.9	548.9
20°	535.4	535.4	535.4	540.9	539.6
22.5°	524.7	524.7	526.1	531.5	530.2
25°	514.1	512.7	514.1	519.3	520.6
27.5°	500.6	501.9	503.2	508.6	509.9
30°	487.2	488.6	489.9	496.6	497.9
32.5°	471.1	473.8	476.4	484.4	484.4
35°	455.0	457.6	461.7	471.1	472.4
37.5°	437.6	440.2	445.6	456.3	458.9
40°	418.6	422.8	430.8	441.5	445.6
42.5°	399.9	405.3	414.7	426.7	432.1
45°	379.8	385.1	397.3	412.1	418.6
47.5°	358.3	365.0	379.8	398.6	404.0
50°	335.6	345.0	362.4	382.5	389.2
52.5°	312.7	323.4	345.0	366.3	373.1
55°	288.5	300.5	327.5	348.9	357.0
57.5°	264.3	277.8	308.6	331.5	339.5
60°	238.9	255.0	288.5	311.4	318.1
62.5°	213.4	232.1	268.5	291.2	296.6
65°	186.5	209.4	246.9	267.1	272.4
67.5°	161.0	187.9	225.5	240.2	240.2
70°	134.2	163.7	201.3	205.3	197.2
72.5°	107.4	141.0	174.5	159.7	153.0
75°	81.9	119.4	136.9	123.5	119.4
77.5°	61.7	96.6	96.6	88.5	85.9
80°	42.9	73.9	64.5	56.4	52.3
82.5°	28.1	41.6	33.6	26.8	22.9
85°	14.8	16.1	9.4	8.1	6.7
87.5°	5.4	2.6	1.3	2.6	1.3
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)