

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: P732713

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732713  
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-CA08-3500K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RDP LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

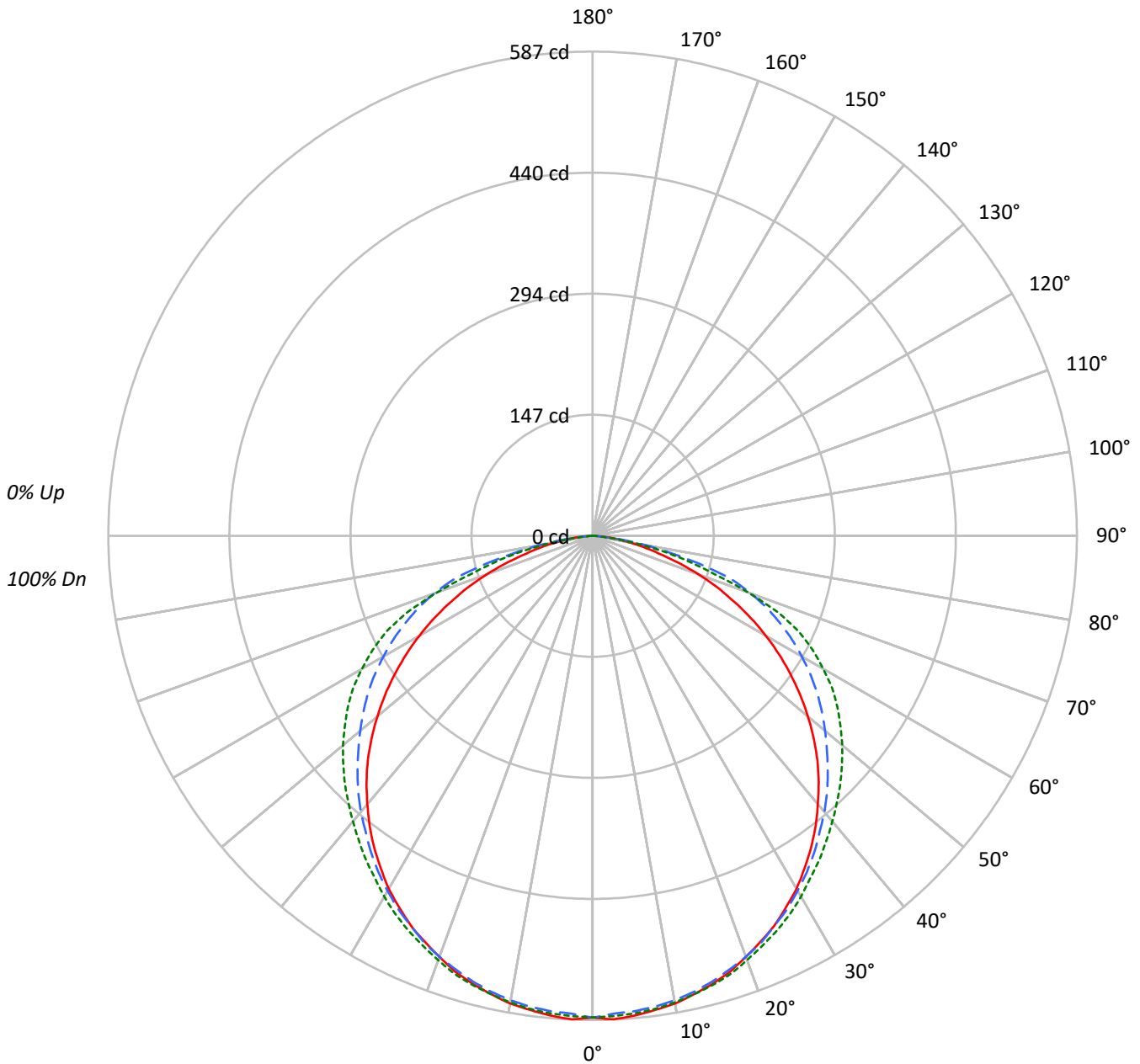
Lumens per Lamp: N/A  
Luminaire Lumens: 1744.0 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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: P732713

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA08-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P732713

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA08-3500K

**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°	1649	1649	1649
5°	1655	1639	1647
10°	1651	1639	1647
15°	1643	1635	1648
20°	1632	1632	1644
25°	1624	1624	1645
30°	1611	1620	1647
35°	1591	1614	1652
40°	1565	1611	1666
45°	1538	1609	1695
50°	1495	1615	1734
55°	1440	1635	1782
60°	1368	1652	1822
65°	1264	1673	1846
70°	1124	1686	1651
75°	906	1515	1322
80°	709	1063	863
85°	486	308	220



TEST NUMBER: P732713

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA08-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.3	3.2
10°-20°	158.6	9.1
20°-30°	241.5	13.8
30°-40°	294.2	16.9
40°-50°	312.1	17.9
50°-60°	294.6	16.9
60°-70°	237.8	13.6
70°-80°	129.0	7.4
80°-90°	20.9	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°	455.4	26.1
0°-40°	749.6	43.0
0°-60°	1356.3	77.8
0°-90°	1744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1744.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	584	583	579	583	581	55
15°	562	561	560	564	564	159
25°	522	520	522	527	528	240
35°	462	464	468	478	479	289
45°	385	391	403	418	425	297
55°	293	305	332	354	362	261
65°	189	212	250	271	276	188
75°	83	121	139	125	121	91
85°	15	16	10	8	7	19
90°	0	0	0	0	0	



TEST NUMBER: P732713

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA08-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	584.1	584.1	584.1	584.1	584.1
2.5°	586.8	584.1	579.9	584.1	582.8
5°	584.1	582.8	578.6	582.8	581.4
7.5°	579.9	579.9	575.9	578.6	578.6
10°	575.9	574.6	571.9	575.9	574.6
12.5°	569.1	567.8	566.4	570.4	569.1
15°	562.3	560.9	559.6	563.8	563.8
17.5°	554.1	552.7	551.4	556.9	556.9
20°	543.2	543.2	543.2	548.7	547.4
22.5°	532.4	532.4	533.7	539.2	537.9
25°	521.5	520.2	521.5	526.9	528.2
27.5°	507.8	509.2	510.5	516.0	517.4
30°	494.3	495.7	497.0	503.8	505.2
32.5°	478.0	480.6	483.3	491.5	491.5
35°	461.6	464.3	468.5	478.0	479.3
37.5°	443.9	446.6	452.1	463.0	465.6
40°	424.7	428.9	437.1	447.9	452.1
42.5°	405.7	411.2	420.7	432.9	438.4
45°	385.3	390.7	403.0	418.1	424.7
47.5°	363.5	370.3	385.3	404.4	409.9
50°	340.5	350.0	367.7	388.0	394.9
52.5°	317.3	328.1	350.0	371.7	378.5
55°	292.7	304.9	332.3	354.0	362.2
57.5°	268.2	281.9	313.1	336.3	344.5
60°	242.3	258.7	292.7	315.9	322.8
62.5°	216.5	235.5	272.4	295.4	300.9
65°	189.3	212.5	250.5	271.0	276.4
67.5°	163.4	190.6	228.8	243.7	243.7
70°	136.2	166.1	204.3	208.3	200.1
72.5°	109.0	143.0	177.1	162.1	155.2
75°	83.1	121.2	138.9	125.3	121.2
77.5°	62.6	98.0	98.0	89.8	87.1
80°	43.6	74.9	65.4	57.2	53.1
82.5°	28.5	42.2	34.0	27.2	23.2
85°	15.0	16.4	9.5	8.2	6.8
87.5°	5.5	2.7	1.3	2.7	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)