

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: P732718

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732718  
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-CA125-3500K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RDP LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

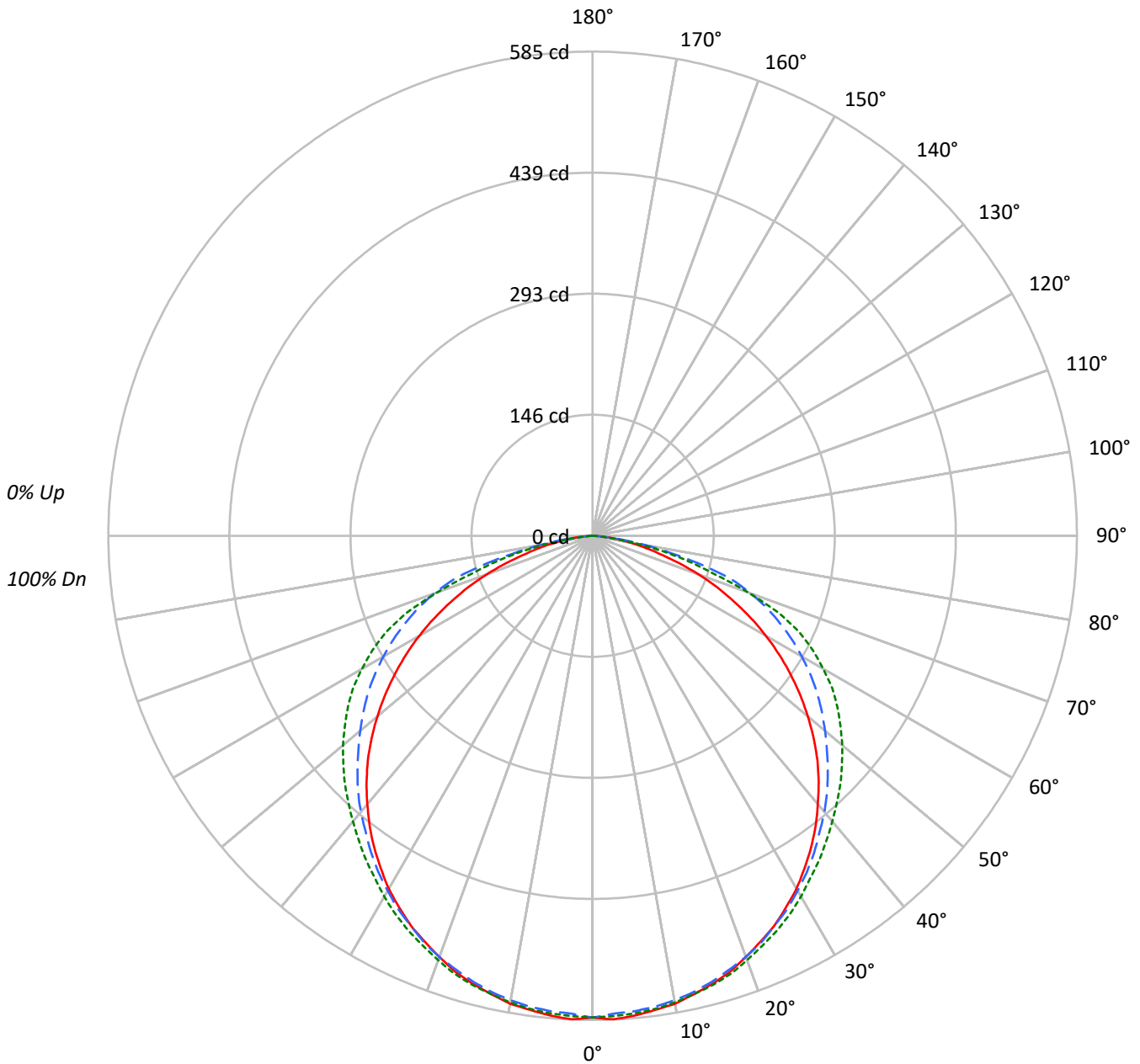
Lumens per Lamp: N/A  
Luminaire Lumens: 1738.0 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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: P732718

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA125-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P732718

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA125-3500K

**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°	1643	1643	1643
5°	1649	1634	1642
10°	1645	1634	1641
15°	1637	1630	1642
20°	1626	1626	1639
25°	1619	1619	1639
30°	1606	1614	1641
35°	1585	1609	1646
40°	1560	1605	1660
45°	1533	1604	1690
50°	1490	1609	1728
55°	1436	1629	1776
60°	1363	1647	1816
65°	1260	1667	1839
70°	1120	1680	1646
75°	903	1509	1316
80°	705	1060	860
85°	486	308	220



TEST NUMBER: P732718

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA125-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	3.2
10°-20°	158.1	9.1
20°-30°	240.7	13.8
30°-40°	293.2	16.9
40°-50°	311.0	17.9
50°-60°	293.5	16.9
60°-70°	237.0	13.6
70°-80°	128.6	7.4
80°-90°	20.8	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°	453.9	26.1
0°-40°	747.0	43.0
0°-60°	1351.6	77.8
0°-90°	1738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1738.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	582	581	577	581	579	55
15°	560	559	558	562	562	158
25°	520	518	520	525	526	239
35°	460	463	467	476	478	288
45°	384	389	402	417	423	296
55°	292	304	331	353	361	261
65°	189	212	250	270	275	187
75°	83	121	138	125	121	90
85°	15	16	10	8	7	19
90°	0	0	0	0	0	



TEST NUMBER: P732718

CATALOG NUMBER: 14FCZ2-29-RDP-B2750-W2D-CA125-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	582.1	582.1	582.1	582.1	582.1
2.5°	584.8	582.1	577.9	582.1	580.8
5°	582.1	580.8	576.6	580.8	579.4
7.5°	577.9	577.9	574.0	576.6	576.6
10°	574.0	572.6	570.0	574.0	572.6
12.5°	567.1	565.8	564.5	568.5	567.1
15°	560.3	559.0	557.7	561.8	561.8
17.5°	552.2	550.8	549.5	555.0	555.0
20°	541.4	541.4	541.4	546.8	545.5
22.5°	530.5	530.5	531.9	537.4	536.0
25°	519.7	518.4	519.7	525.1	526.4
27.5°	506.1	507.4	508.8	514.2	515.6
30°	492.6	494.0	495.3	502.1	503.4
32.5°	476.3	479.0	481.7	489.8	489.8
35°	460.0	462.7	466.8	476.3	477.7
37.5°	442.4	445.1	450.5	461.4	464.0
40°	423.3	427.4	435.6	446.4	450.5
42.5°	404.3	409.8	419.3	431.4	436.9
45°	384.0	389.3	401.7	416.6	423.3
47.5°	362.2	369.1	384.0	403.0	408.5
50°	339.3	348.8	366.4	386.7	393.5
52.5°	316.2	327.0	348.8	370.4	377.2
55°	291.7	303.9	331.1	352.8	360.9
57.5°	267.3	280.9	312.0	335.1	343.3
60°	241.5	257.8	291.7	314.8	321.7
62.5°	215.7	234.7	271.4	294.4	299.9
65°	188.6	211.7	249.6	270.1	275.4
67.5°	162.8	189.9	228.0	242.8	242.8
70°	135.7	165.5	203.6	207.6	199.4
72.5°	108.6	142.5	176.5	161.5	154.7
75°	82.8	120.7	138.4	124.9	120.7
77.5°	62.4	97.6	97.6	89.5	86.8
80°	43.4	74.7	65.2	57.0	52.9
82.5°	28.4	42.1	33.9	27.1	23.1
85°	15.0	16.3	9.5	8.1	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)