

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: P732715

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732715  
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-CA08-5000K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

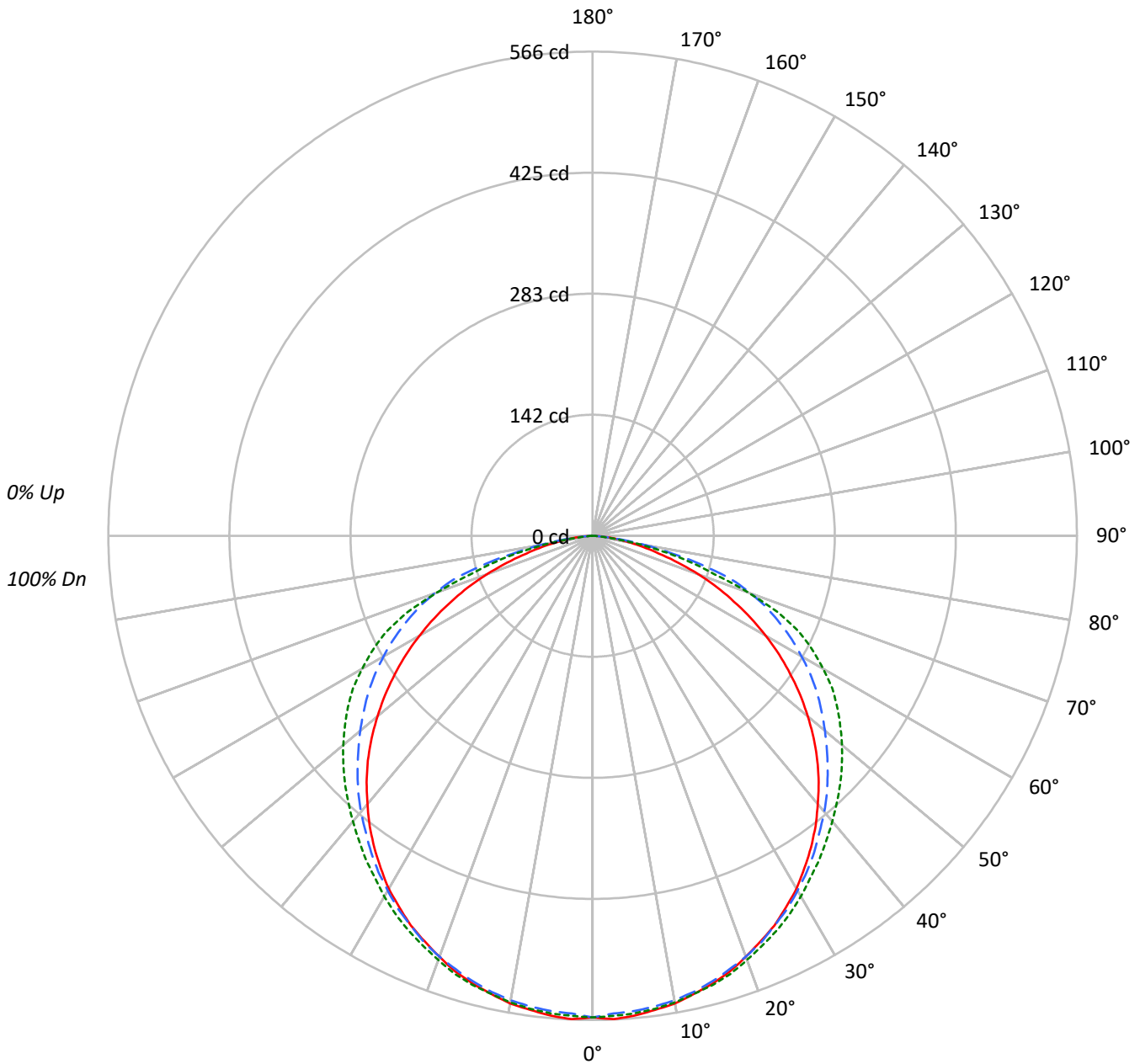
Lumens per Lamp: N/A  
Luminaire Lumens: 1681.0 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





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**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°	1589	1589	1589
5°	1595	1580	1588
10°	1591	1580	1587
15°	1584	1576	1588
20°	1573	1573	1585
25°	1566	1566	1586
30°	1553	1561	1587
35°	1533	1556	1592
40°	1509	1552	1606
45°	1483	1551	1634
50°	1441	1556	1671
55°	1389	1576	1718
60°	1319	1593	1756
65°	1218	1613	1779
70°	1084	1625	1592
75°	874	1459	1274
80°	683	1026	832
85°	470	298	214



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.3	3.2
10°-20°	152.9	9.1
20°-30°	232.8	13.8
30°-40°	283.6	16.9
40°-50°	300.8	17.9
50°-60°	283.9	16.9
60°-70°	229.2	13.6
70°-80°	124.4	7.4
80°-90°	20.1	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°	439.0	26.1
0°-40°	722.5	43.0
0°-60°	1307.3	77.8
0°-90°	1681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1681.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	563	563	563	563	563	
5°	563	562	558	562	560	53
15°	542	541	539	543	543	153
25°	503	501	503	508	509	231
35°	445	448	452	461	462	278
45°	371	377	388	403	409	286
55°	282	294	320	341	349	252
65°	182	205	242	261	266	181
75°	80	117	134	121	117	87
85°	14	16	9	8	7	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	563.0	563.0	563.0	563.0	563.0
2.5°	565.6	563.0	559.0	563.0	561.7
5°	563.0	561.7	557.7	561.7	560.4
7.5°	559.0	559.0	555.1	557.7	557.7
10°	555.1	553.8	551.3	555.1	553.8
12.5°	548.5	547.3	546.0	549.8	548.5
15°	541.9	540.7	539.4	543.4	543.4
17.5°	534.1	532.8	531.5	536.8	536.8
20°	523.6	523.6	523.6	528.9	527.6
22.5°	513.1	513.1	514.4	519.7	518.5
25°	502.7	501.4	502.7	507.8	509.1
27.5°	489.5	490.8	492.1	497.4	498.7
30°	476.5	477.8	479.0	485.6	486.9
32.5°	460.7	463.3	465.9	473.7	473.7
35°	444.9	447.5	451.5	460.7	462.0
37.5°	427.9	430.5	435.8	446.2	448.8
40°	409.4	413.4	421.3	431.8	435.8
42.5°	391.1	396.4	405.5	417.3	422.6
45°	371.4	376.6	388.5	403.0	409.4
47.5°	350.4	357.0	371.4	389.8	395.1
50°	328.2	337.3	354.4	374.0	380.6
52.5°	305.8	316.3	337.3	358.2	364.8
55°	282.2	293.9	320.3	341.2	349.1
57.5°	258.5	271.7	301.8	324.1	332.0
60°	233.6	249.3	282.2	304.5	311.1
62.5°	208.6	227.0	262.5	284.7	290.0
65°	182.4	204.8	241.5	261.2	266.4
67.5°	157.5	183.7	220.5	234.9	234.9
70°	131.3	160.1	196.9	200.8	192.9
72.5°	105.0	137.9	170.7	156.2	149.6
75°	80.1	116.8	133.8	120.8	116.8
77.5°	60.3	94.4	94.4	86.5	84.0
80°	42.0	72.2	63.1	55.2	51.2
82.5°	27.5	40.7	32.8	26.2	22.4
85°	14.5	15.8	9.2	7.9	6.6
87.5°	5.3	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)