

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: P732730

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732730  
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-CP250-5000K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

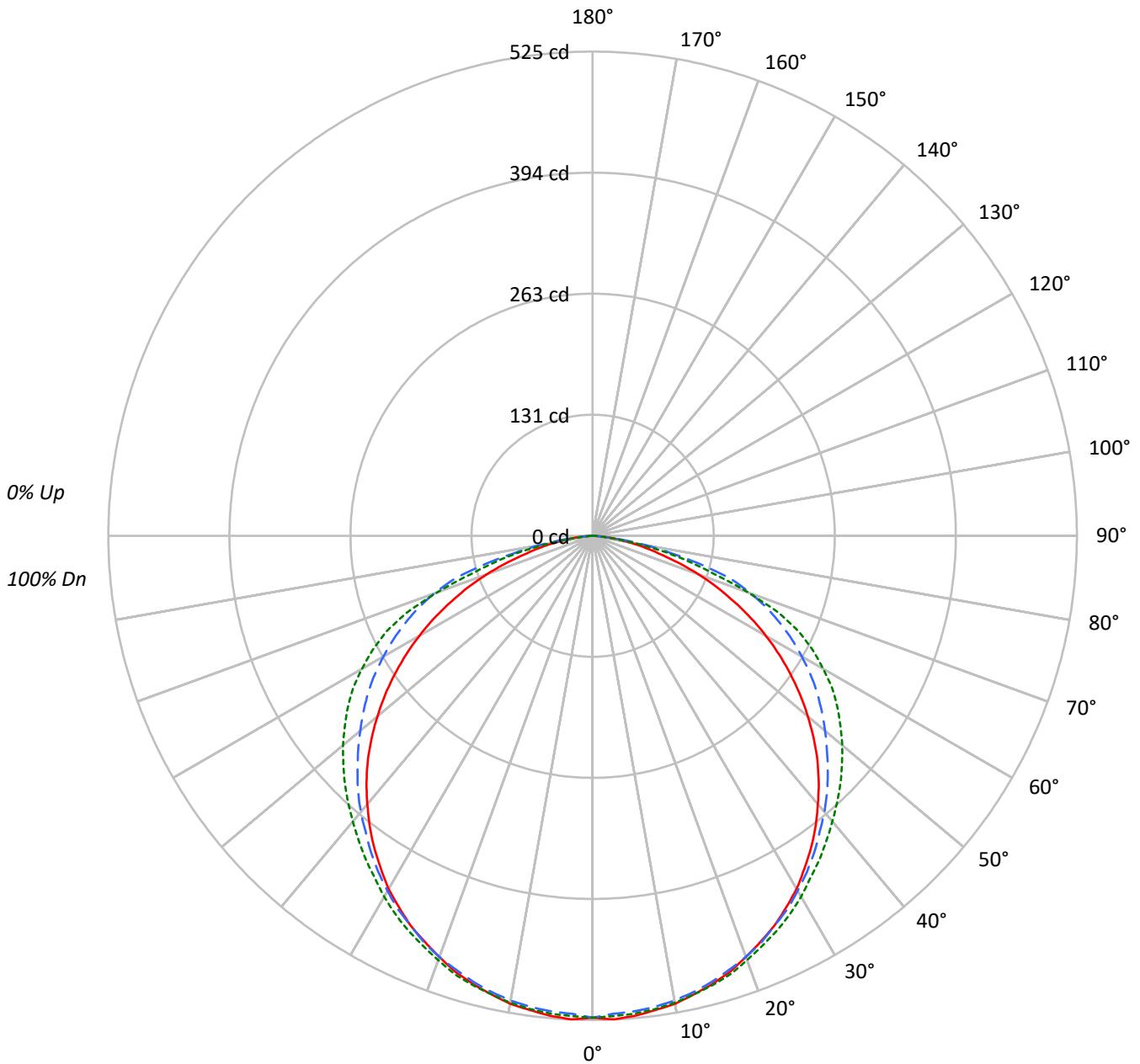
Lumens per Lamp: N/A  
Luminaire Lumens: 1560.0 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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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°	1475	1475	1475
5°	1480	1467	1474
10°	1477	1466	1473
15°	1470	1463	1474
20°	1460	1460	1471
25°	1453	1453	1472
30°	1441	1449	1473
35°	1423	1444	1477
40°	1400	1441	1490
45°	1376	1439	1517
50°	1337	1444	1551
55°	1288	1463	1594
60°	1224	1478	1630
65°	1131	1497	1651
70°	1005	1508	1477
75°	810	1355	1182
80°	634	951	772
85°	434	275	198



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.5	3.2
10°-20°	141.9	9.1
20°-30°	216.1	13.8
30°-40°	263.1	16.9
40°-50°	279.2	17.9
50°-60°	263.5	16.9
60°-70°	212.7	13.6
70°-80°	115.4	7.4
80°-90°	18.7	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°	407.4	26.1
0°-40°	670.5	43.0
0°-60°	1213.2	77.8
0°-90°	1560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1560.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	522	521	518	521	520	50
15°	503	502	500	504	504	142
25°	466	465	466	471	472	215
35°	413	415	419	428	429	258
45°	345	350	360	374	380	265
55°	262	273	297	317	324	234
65°	169	190	224	242	247	168
75°	74	108	124	112	108	81
85°	13	15	8	7	6	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	522.5	522.5	522.5	522.5	522.5
2.5°	524.9	522.5	518.8	522.5	521.3
5°	522.5	521.3	517.6	521.3	520.1
7.5°	518.8	518.8	515.2	517.6	517.6
10°	515.2	514.0	511.6	515.2	514.0
12.5°	509.1	507.9	506.7	510.2	509.1
15°	502.9	501.7	500.5	504.3	504.3
17.5°	495.6	494.4	493.2	498.2	498.2
20°	485.9	485.9	485.9	490.8	489.6
22.5°	476.2	476.2	477.4	482.3	481.1
25°	466.5	465.3	466.5	471.3	472.5
27.5°	454.3	455.5	456.7	461.6	462.8
30°	442.2	443.4	444.6	450.7	451.9
32.5°	427.5	429.9	432.3	439.6	439.6
35°	412.9	415.3	419.0	427.5	428.7
37.5°	397.1	399.5	404.4	414.1	416.5
40°	379.9	383.7	391.0	400.7	404.4
42.5°	362.9	367.8	376.3	387.2	392.2
45°	344.7	349.5	360.5	374.0	379.9
47.5°	325.1	331.3	344.7	361.7	366.6
50°	304.5	313.0	328.9	347.1	353.2
52.5°	283.8	293.5	313.0	332.5	338.6
55°	261.8	272.7	297.2	316.6	323.9
57.5°	239.9	252.1	280.1	300.8	308.1
60°	216.8	231.4	261.8	282.6	288.7
62.5°	193.6	210.6	243.6	264.2	269.2
65°	169.3	190.0	224.1	242.4	247.2
67.5°	146.1	170.5	204.7	218.0	218.0
70°	121.8	148.5	182.7	186.3	179.0
72.5°	97.5	127.9	158.4	145.0	138.8
75°	74.3	108.4	124.2	112.1	108.4
77.5°	56.0	87.6	87.6	80.3	77.9
80°	39.0	67.0	58.5	51.2	47.5
82.5°	25.5	37.8	30.5	24.3	20.8
85°	13.4	14.6	8.5	7.3	6.1
87.5°	4.9	2.4	1.2	2.4	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)