

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: P732729

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732729  
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-CP250-4000K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

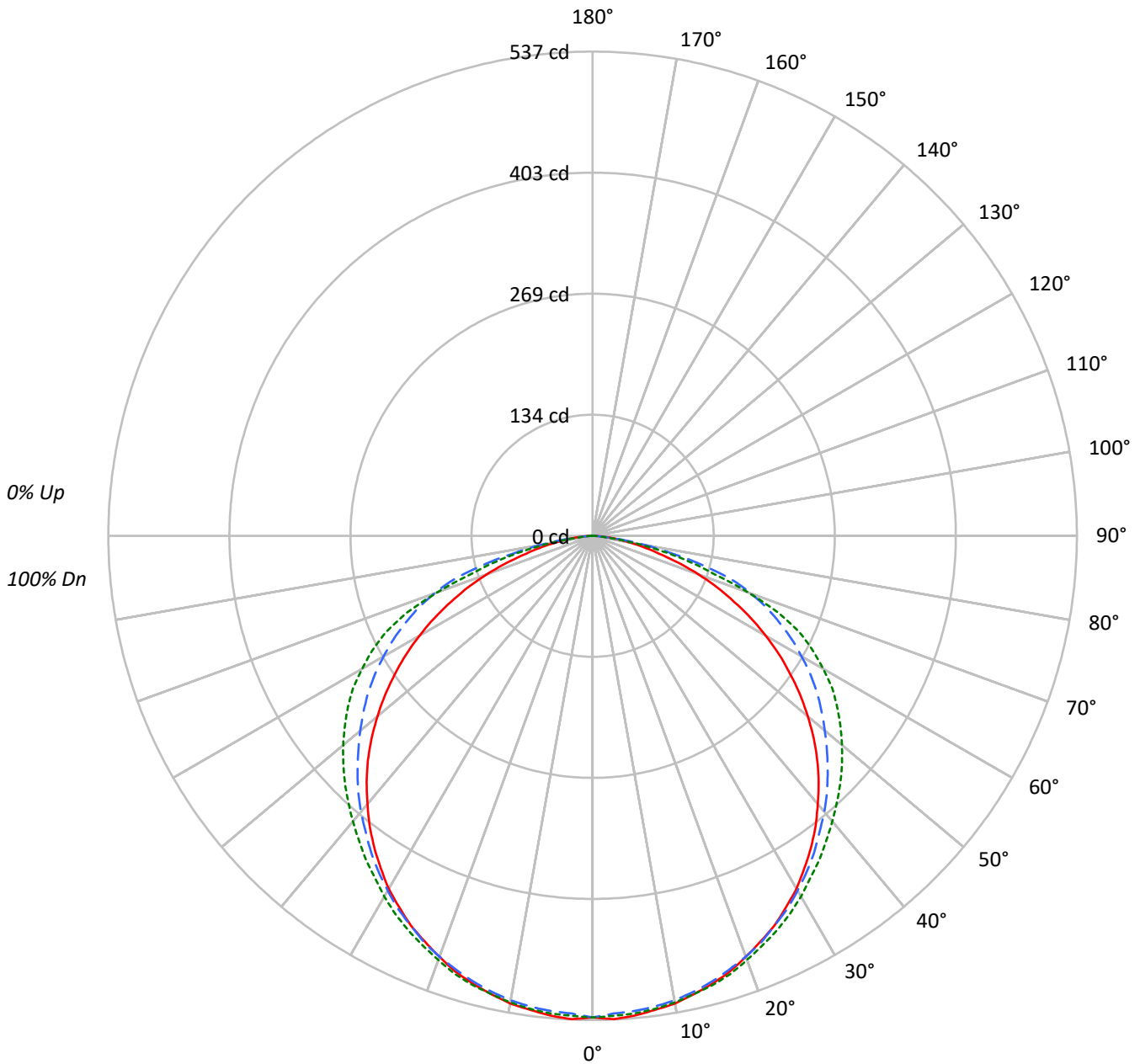
Lumens per Lamp: N/A  
Luminaire Lumens: 1595.0 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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					20					
RC	80					70					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°	1508	1508	1508
5°	1514	1499	1507
10°	1510	1499	1506
15°	1503	1496	1507
20°	1492	1492	1504
25°	1486	1486	1505
30°	1474	1481	1506
35°	1455	1476	1511
40°	1431	1473	1524
45°	1407	1471	1550
50°	1367	1476	1586
55°	1317	1496	1630
60°	1251	1511	1667
65°	1156	1530	1688
70°	1027	1542	1510
75°	829	1385	1208
80°	647	972	788
85°	444	282	204



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.6	3.2
10°-20°	145.1	9.1
20°-30°	220.9	13.8
30°-40°	269.1	16.9
40°-50°	285.4	17.9
50°-60°	269.4	16.9
60°-70°	217.5	13.6
70°-80°	118.0	7.4
80°-90°	19.1	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°	416.5	26.1
0°-40°	685.6	43.0
0°-60°	1240.4	77.8
0°-90°	1595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1595.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	534	533	529	533	532	51
15°	514	513	512	516	516	145
25°	477	476	477	482	483	220
35°	422	425	428	437	438	264
45°	352	357	369	382	388	271
55°	268	279	304	324	331	239
65°	173	194	229	248	253	171
75°	76	111	127	115	111	83
85°	14	15	9	8	6	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	534.2	534.2	534.2	534.2	534.2
2.5°	536.7	534.2	530.4	534.2	533.0
5°	534.2	533.0	529.2	533.0	531.8
7.5°	530.4	530.4	526.7	529.2	529.2
10°	526.7	525.5	523.1	526.7	525.5
12.5°	520.5	519.3	518.0	521.7	520.5
15°	514.2	513.0	511.8	515.6	515.6
17.5°	506.7	505.5	504.3	509.3	509.3
20°	496.8	496.8	496.8	501.9	500.6
22.5°	486.9	486.9	488.1	493.2	491.9
25°	477.0	475.8	477.0	481.9	483.1
27.5°	464.5	465.7	466.9	471.9	473.2
30°	452.1	453.3	454.5	460.8	462.0
32.5°	437.1	439.6	442.0	449.5	449.5
35°	422.2	424.6	428.4	437.1	438.4
37.5°	406.0	408.4	413.5	423.4	425.8
40°	388.4	392.3	399.7	409.7	413.5
42.5°	371.0	376.1	384.8	395.9	401.0
45°	352.4	357.3	368.6	382.3	388.4
47.5°	332.4	338.7	352.4	369.8	374.9
50°	311.4	320.1	336.2	354.9	361.1
52.5°	290.2	300.1	320.1	339.9	346.2
55°	267.7	278.9	303.9	323.7	331.2
57.5°	245.3	257.8	286.3	307.6	315.0
60°	221.6	236.6	267.7	288.9	295.2
62.5°	198.0	215.4	249.1	270.2	275.2
65°	173.1	194.3	229.1	247.9	252.8
67.5°	149.4	174.3	209.3	222.8	222.8
70°	124.5	151.9	186.8	190.5	183.0
72.5°	99.7	130.8	161.9	148.2	141.9
75°	76.0	110.8	127.0	114.6	110.8
77.5°	57.2	89.6	89.6	82.1	79.7
80°	39.8	68.5	59.8	52.4	48.5
82.5°	26.1	38.6	31.1	24.9	21.2
85°	13.7	15.0	8.7	7.5	6.3
87.5°	5.0	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)