

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: P732722

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732722  
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-CP187-3000K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

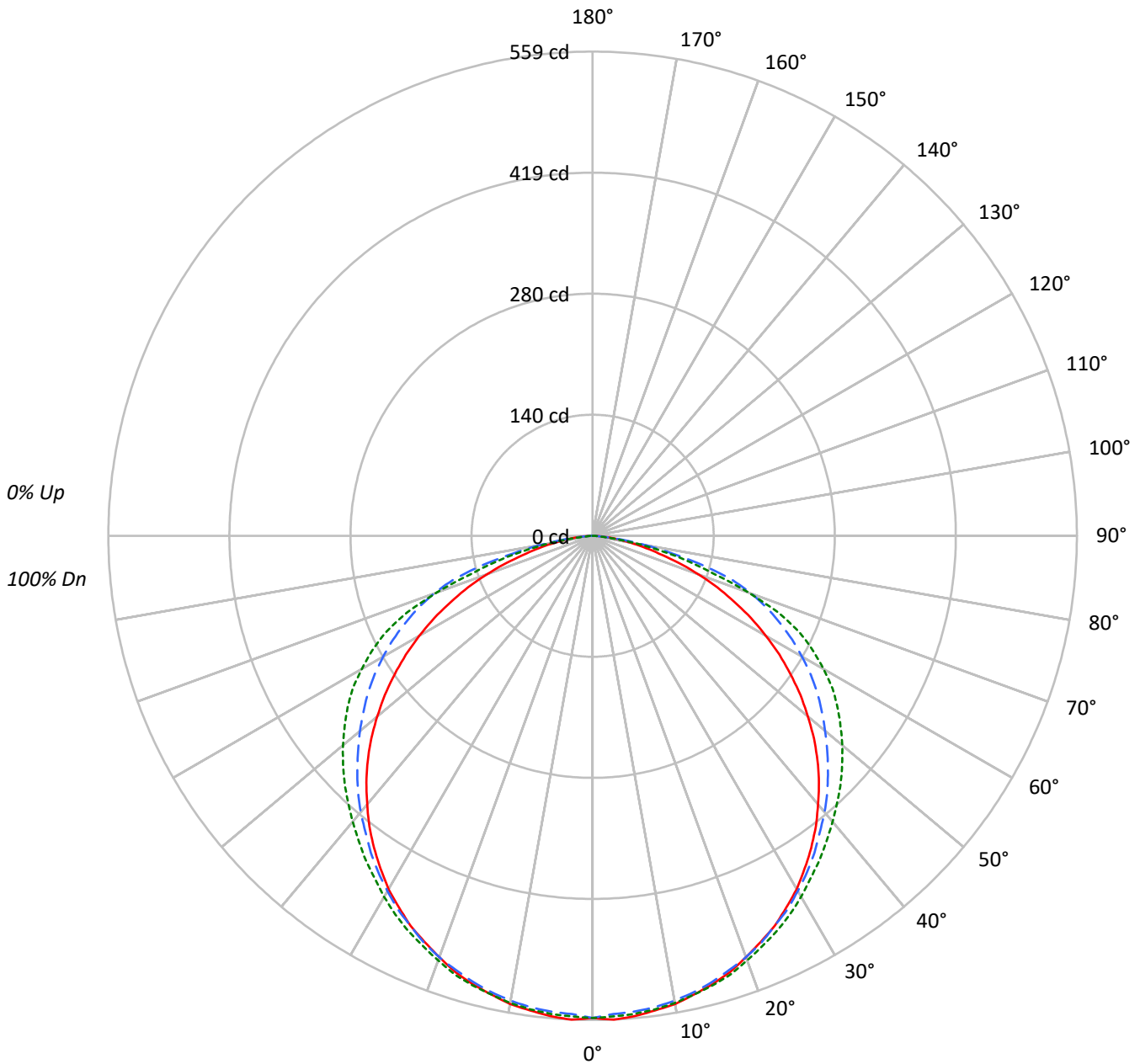
Lumens per Lamp: N/A  
Luminaire Lumens: 1662.0 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
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°	1571	1571	1571
5°	1577	1562	1570
10°	1573	1562	1570
15°	1566	1558	1570
20°	1555	1555	1567
25°	1548	1548	1568
30°	1535	1544	1569
35°	1516	1538	1574
40°	1492	1535	1587
45°	1466	1533	1616
50°	1425	1539	1652
55°	1373	1559	1698
60°	1304	1575	1737
65°	1205	1594	1759
70°	1071	1607	1574
75°	864	1443	1260
80°	675	1013	823
85°	463	295	211



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.7	3.2
10°-20°	151.2	9.1
20°-30°	230.2	13.8
30°-40°	280.4	16.9
40°-50°	297.4	17.9
50°-60°	280.7	16.9
60°-70°	226.6	13.6
70°-80°	123.0	7.4
80°-90°	19.9	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°	434.0	26.1
0°-40°	714.4	43.0
0°-60°	1292.5	77.8
0°-90°	1662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1662.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	557	557	557	557	557	
5°	557	555	551	555	554	53
15°	536	534	533	537	537	151
25°	497	496	497	502	503	229
35°	440	442	446	456	457	275
45°	367	372	384	398	405	283
55°	279	291	317	337	345	249
65°	180	202	239	258	263	179
75°	79	116	132	119	116	86
85°	14	16	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°	556.7	556.7	556.7	556.7	556.7
2.5°	559.2	556.7	552.7	556.7	555.4
5°	556.7	555.4	551.4	555.4	554.1
7.5°	552.7	552.7	548.9	551.4	551.4
10°	548.9	547.6	545.0	548.9	547.6
12.5°	542.3	541.1	539.8	543.6	542.3
15°	535.8	534.5	533.3	537.2	537.2
17.5°	528.0	526.8	525.5	530.7	530.7
20°	517.7	517.7	517.7	522.9	521.7
22.5°	507.3	507.3	508.6	513.9	512.6
25°	497.0	495.7	497.0	502.1	503.4
27.5°	484.0	485.2	486.5	491.8	493.0
30°	471.1	472.4	473.6	480.2	481.4
32.5°	455.5	458.0	460.6	468.4	468.4
35°	439.9	442.5	446.4	455.5	456.8
37.5°	423.1	425.6	430.8	441.2	443.7
40°	404.8	408.7	416.5	426.9	430.8
42.5°	386.6	391.9	400.9	412.6	417.8
45°	367.2	372.3	384.1	398.4	404.8
47.5°	346.4	352.9	367.2	385.4	390.6
50°	324.4	333.5	350.4	369.8	376.3
52.5°	302.3	312.7	333.5	354.2	360.7
55°	279.0	290.6	316.7	337.3	345.1
57.5°	255.6	268.6	298.4	320.5	328.3
60°	230.9	246.5	279.0	301.1	307.6
62.5°	206.3	224.4	259.6	281.5	286.8
65°	180.4	202.5	238.7	258.3	263.4
67.5°	155.7	181.6	218.0	232.2	232.2
70°	129.8	158.2	194.7	198.5	190.7
72.5°	103.9	136.3	168.7	154.4	147.9
75°	79.2	115.5	132.3	119.4	115.5
77.5°	59.6	93.4	93.4	85.6	83.0
80°	41.5	71.4	62.3	54.6	50.6
82.5°	27.2	40.2	32.4	25.9	22.1
85°	14.3	15.6	9.1	7.8	6.5
87.5°	5.2	2.5	1.3	2.5	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)