

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: METALUX

Report Number: P731849

Luminaire Tested: **14CZ2-29-RDP-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731849  
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: METALUX  
Catalog Number: 14CZ2-29-RDP-B2750-W2D-4000K  
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

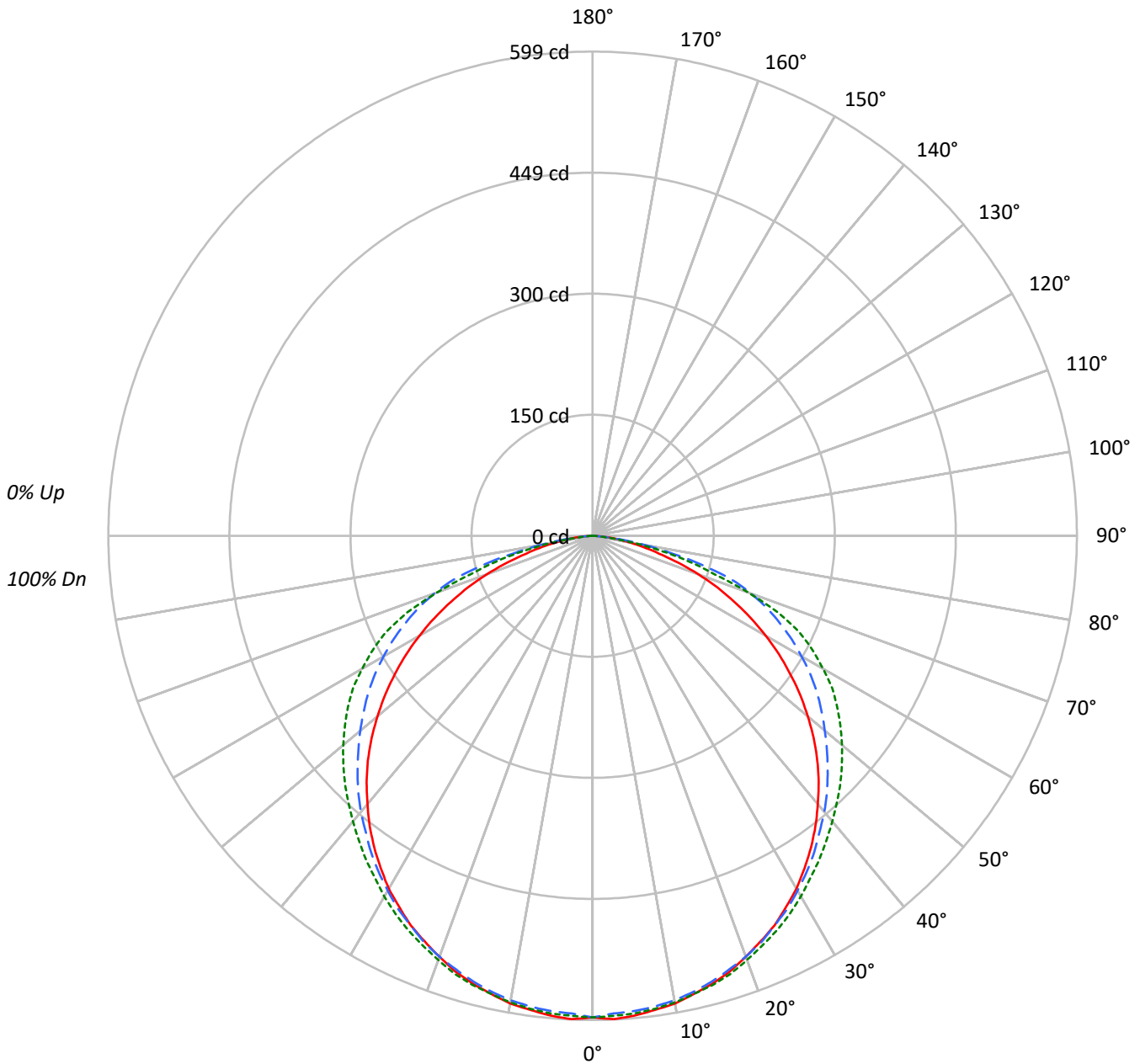
Lumens per Lamp: N/A  
Luminaire Lumens: 1779.0 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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: P731849

CATALOG NUMBER: 14CZ2-29-RDP-B2750-W2D-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P731849

CATALOG NUMBER: 14CZ2-29-RDP-B2750-W2D-4000K

**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°	1682	1682	1682
5°	1688	1672	1681
10°	1684	1672	1680
15°	1676	1668	1681
20°	1664	1664	1677
25°	1657	1657	1678
30°	1643	1652	1680
35°	1623	1647	1685
40°	1597	1643	1699
45°	1569	1641	1730
50°	1525	1647	1769
55°	1469	1668	1818
60°	1396	1686	1858
65°	1290	1706	1883
70°	1146	1720	1684
75°	925	1544	1348
80°	722	1084	879
85°	496	314	227



TEST NUMBER: P731849

CATALOG NUMBER: 14CZ2-29-RDP-B2750-W2D-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.4	3.2
10°-20°	161.8	9.1
20°-30°	246.4	13.8
30°-40°	300.1	16.9
40°-50°	318.4	17.9
50°-60°	300.5	16.9
60°-70°	242.6	13.6
70°-80°	131.6	7.4
80°-90°	21.3	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°	464.6	26.1
0°-40°	764.7	43.0
0°-60°	1383.5	77.8
0°-90°	1779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1779.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	596	594	590	594	593	57
15°	574	572	571	575	575	162
25°	532	531	532	537	539	245
35°	471	474	478	488	489	294
45°	393	398	411	426	433	303
55°	299	311	339	361	369	267
65°	193	217	256	276	282	191
75°	85	124	142	128	124	93
85°	15	17	10	8	7	20
90°	0	0	0	0	0	



TEST NUMBER: P731849

CATALOG NUMBER: 14CZ2-29-RDP-B2750-W2D-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	595.8	595.8	595.8	595.8	595.8
2.5°	598.6	595.8	591.6	595.8	594.5
5°	595.8	594.5	590.2	594.5	593.1
7.5°	591.6	591.6	587.5	590.2	590.2
10°	587.5	586.1	583.4	587.5	586.1
12.5°	580.5	579.2	577.8	581.9	580.5
15°	573.5	572.2	570.8	575.1	575.1
17.5°	565.2	563.8	562.5	568.1	568.1
20°	554.1	554.1	554.1	559.7	558.4
22.5°	543.1	543.1	544.4	550.0	548.7
25°	532.0	530.6	532.0	537.4	538.8
27.5°	518.0	519.4	520.8	526.4	527.7
30°	504.2	505.6	507.0	514.0	515.3
32.5°	487.6	490.3	493.0	501.4	501.4
35°	470.9	473.6	477.9	487.6	488.9
37.5°	452.8	455.6	461.2	472.2	475.0
40°	433.3	437.5	445.9	456.9	461.2
42.5°	413.9	419.5	429.2	441.6	447.2
45°	393.1	398.5	411.1	426.4	433.3
47.5°	370.8	377.8	393.1	412.5	418.1
50°	347.3	357.0	375.0	395.8	402.8
52.5°	323.6	334.7	357.0	379.1	386.1
55°	298.6	311.0	338.9	361.1	369.4
57.5°	273.6	287.5	319.4	343.0	351.4
60°	247.2	263.9	298.6	322.3	329.2
62.5°	220.8	240.2	277.8	301.3	306.9
65°	193.1	216.7	255.5	276.5	281.9
67.5°	166.7	194.4	233.4	248.5	248.5
70°	138.9	169.4	208.4	212.5	204.1
72.5°	111.2	145.9	180.6	165.3	158.3
75°	84.8	123.6	141.6	127.8	123.6
77.5°	63.8	99.9	99.9	91.6	88.9
80°	44.4	76.4	66.7	58.4	54.1
82.5°	29.1	43.1	34.7	27.7	23.7
85°	15.3	16.7	9.7	8.3	7.0
87.5°	5.6	2.7	1.4	2.7	1.4
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)