

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: P731850

Luminaire Tested: **14CZ2-29-RDP-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731850  
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-5000K  
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

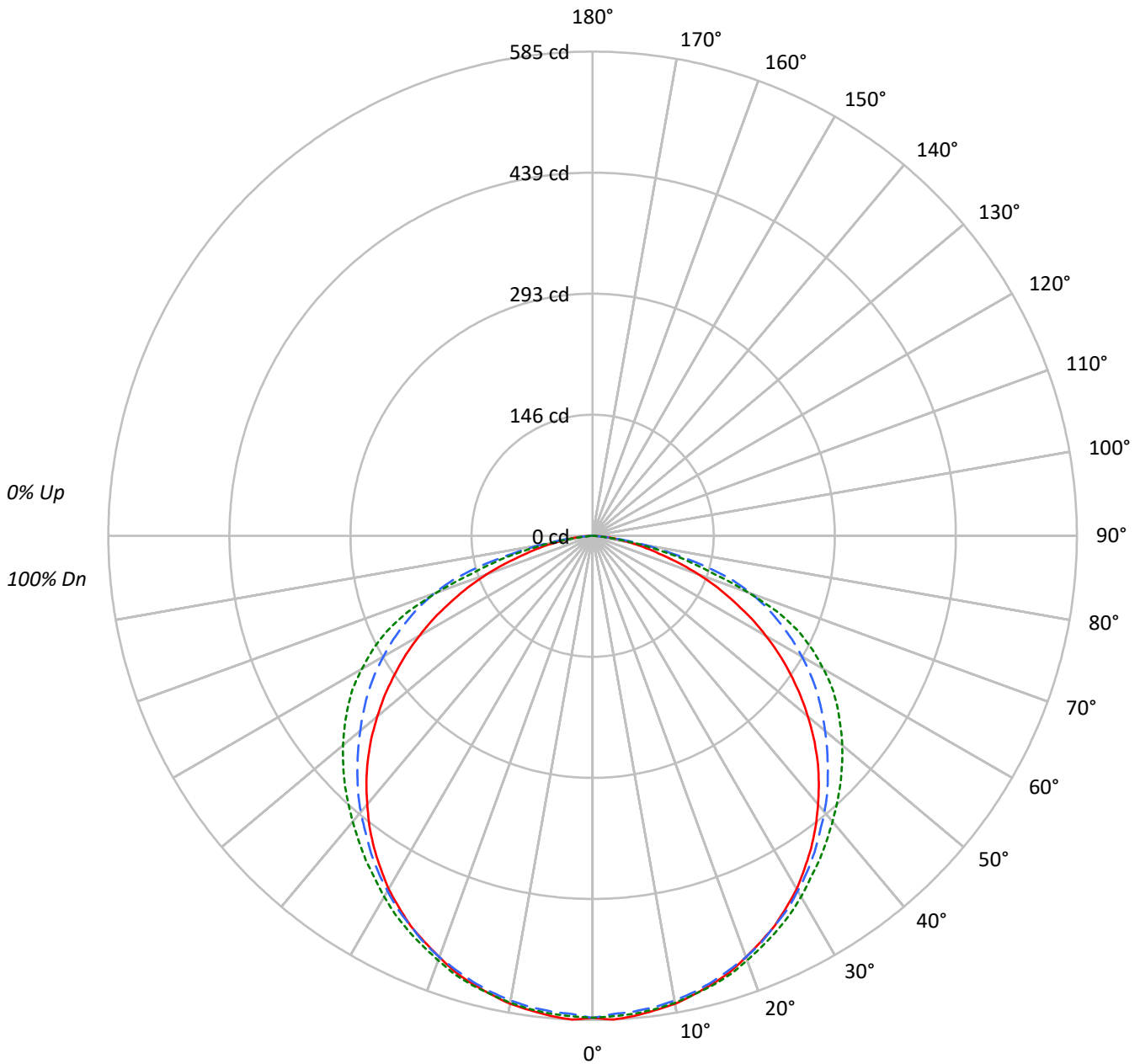
Lumens per Lamp: N/A  
Luminaire Lumens: 1739.0 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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: P731850

CATALOG NUMBER: 14CZ2-29-RDP-B2750-W2D-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P731850

CATALOG NUMBER: 14CZ2-29-RDP-B2750-W2D-5000K

**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°	1644	1644	1644
5°	1650	1635	1643
10°	1646	1635	1642
15°	1638	1631	1643
20°	1627	1627	1639
25°	1620	1620	1640
30°	1607	1615	1642
35°	1586	1610	1647
40°	1560	1606	1661
45°	1534	1604	1691
50°	1491	1610	1729
55°	1436	1630	1777
60°	1364	1648	1817
65°	1260	1668	1841
70°	1121	1681	1646
75°	904	1510	1317
80°	705	1060	860
85°	486	308	220



TEST NUMBER: P731850

CATALOG NUMBER: 14CZ2-29-RDP-B2750-W2D-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	3.2
10°-20°	158.2	9.1
20°-30°	240.8	13.8
30°-40°	293.3	16.9
40°-50°	311.2	17.9
50°-60°	293.7	16.9
60°-70°	237.1	13.6
70°-80°	128.7	7.4
80°-90°	20.8	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°	454.1	26.1
0°-40°	747.5	43.0
0°-60°	1352.4	77.8
0°-90°	1739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1739.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	582	581	577	581	580	55
15°	561	559	558	562	562	158
25°	520	519	520	525	527	239
35°	460	463	467	477	478	288
45°	384	390	402	417	424	296
55°	292	304	331	353	361	261
65°	189	212	250	270	276	187
75°	83	121	138	125	121	91
85°	15	16	10	8	7	19
90°	0	0	0	0	0	



TEST NUMBER: P731850

CATALOG NUMBER: 14CZ2-29-RDP-B2750-W2D-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	582.4	582.4	582.4	582.4	582.4
2.5°	585.1	582.4	578.3	582.4	581.1
5°	582.4	581.1	576.9	581.1	579.8
7.5°	578.3	578.3	574.3	576.9	576.9
10°	574.3	573.0	570.3	574.3	573.0
12.5°	567.5	566.1	564.8	568.8	567.5
15°	560.6	559.3	558.0	562.1	562.1
17.5°	552.5	551.2	549.8	555.3	555.3
20°	541.7	541.7	541.7	547.2	545.8
22.5°	530.9	530.9	532.2	537.7	536.3
25°	520.0	518.7	520.0	525.4	526.7
27.5°	506.4	507.7	509.1	514.5	515.9
30°	492.9	494.2	495.6	502.4	503.7
32.5°	476.6	479.3	481.9	490.1	490.1
35°	460.3	463.0	467.1	476.6	477.9
37.5°	442.7	445.3	450.8	461.6	464.3
40°	423.5	427.7	435.8	446.6	450.8
42.5°	404.5	410.0	419.5	431.7	437.2
45°	384.2	389.6	401.9	416.9	423.5
47.5°	362.4	369.3	384.2	403.2	408.7
50°	339.5	349.0	366.6	386.9	393.7
52.5°	316.3	327.2	349.0	370.6	377.4
55°	291.9	304.0	331.3	353.0	361.1
57.5°	267.4	281.1	312.2	335.3	343.5
60°	241.6	257.9	291.9	315.0	321.8
62.5°	215.8	234.8	271.6	294.5	300.0
65°	188.7	211.8	249.8	270.3	275.6
67.5°	162.9	190.0	228.2	243.0	243.0
70°	135.8	165.6	203.7	207.7	199.5
72.5°	108.7	142.6	176.6	161.6	154.8
75°	82.9	120.8	138.5	125.0	120.8
77.5°	62.4	97.7	97.7	89.5	86.9
80°	43.4	74.7	65.2	57.1	52.9
82.5°	28.5	42.1	33.9	27.1	23.1
85°	15.0	16.3	9.5	8.2	6.8
87.5°	5.5	2.7	1.3	2.7	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)