

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: P731840

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731840  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-29-B2750-W2D-5000K  
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

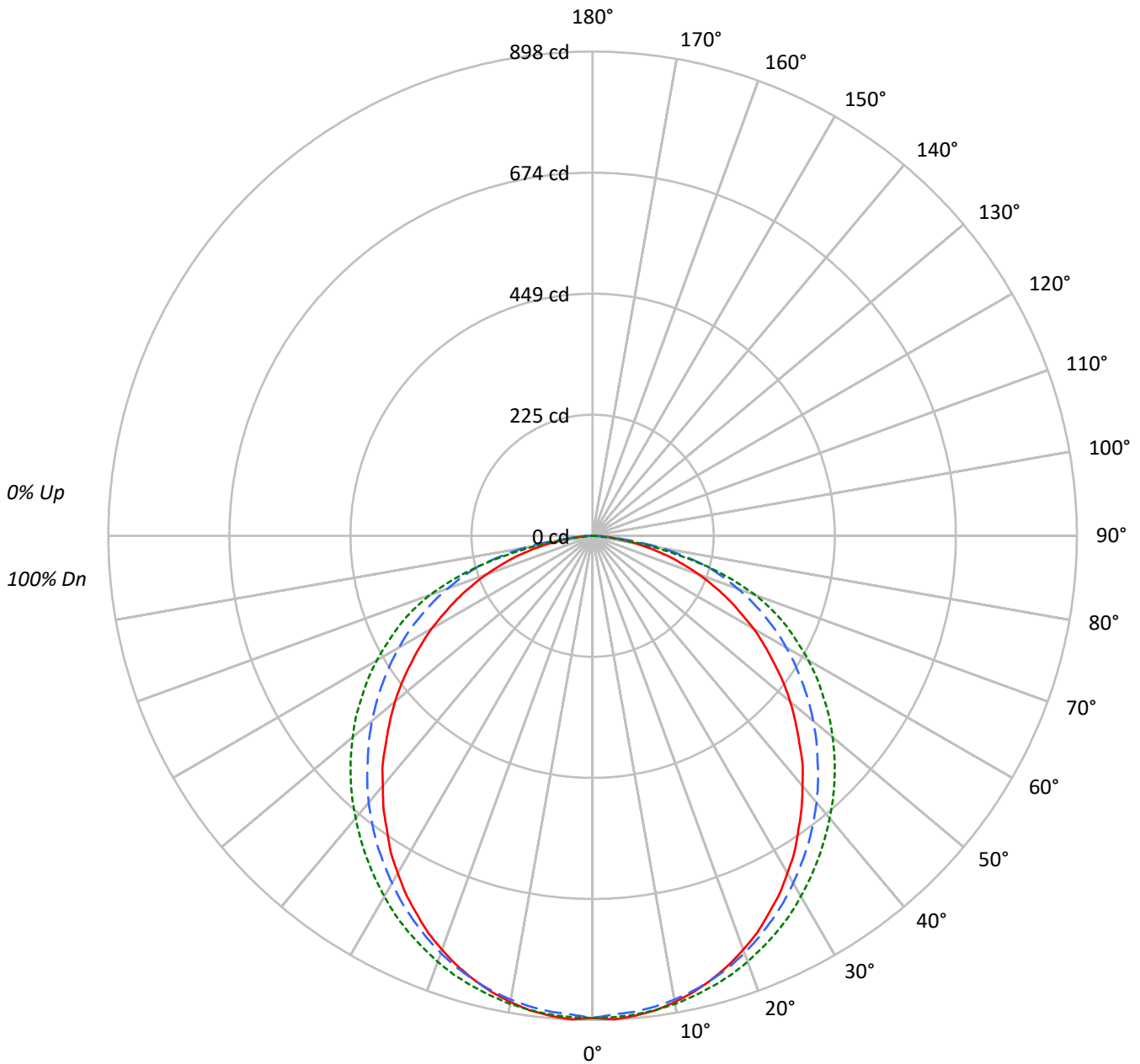
Lumens per Lamp: N/A  
Luminaire Lumens: 2596.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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: P731840

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

### Luminous Intensity Polar Plot





TEST NUMBER: P731840

CATALOG NUMBER: 14CZ2-29-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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83								
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32								
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29								
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26								
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2524	2524	2524
5°	2532	2511	2526
10°	2517	2504	2527
15°	2490	2492	2525
20°	2453	2474	2525
25°	2407	2450	2522
30°	2355	2425	2517
35°	2292	2403	2515
40°	2231	2381	2519
45°	2163	2354	2532
50°	2099	2344	2550
55°	2020	2336	2572
60°	1948	2340	2608
65°	1848	2347	2648
70°	1735	2364	2646
75°	1572	2386	2393
80°	1291	2060	1702
85°	955	975	392



TEST NUMBER: P731840

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	3.3
10°-20°	241.7	9.3
20°-30°	364.2	14.0
30°-40°	437.0	16.8
40°-50°	455.5	17.5
50°-60°	421.7	16.2
60°-70°	340.7	13.1
70°-80°	207.7	8.0
80°-90°	42.9	1.7
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°	690.5	26.6
0°-40°	1127.6	43.4
0°-60°	2004.7	77.2
0°-90°	2596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2596.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	894	892	886	893	892	85
15°	852	853	853	864	864	240
25°	773	777	787	806	810	356
35°	665	676	698	723	730	417
45°	542	558	590	623	634	419
55°	410	432	475	512	523	368
65°	277	304	351	387	396	274
75°	144	176	219	222	219	151
85°	30	44	30	17	12	36
90°	0	0	0	0	0	



TEST NUMBER: P731840

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	894.3	894.3	894.3	894.3	894.3
2.5°	897.9	895.0	888.6	895.0	893.7
5°	893.7	891.5	886.2	892.6	891.5
7.5°	888.0	885.6	881.0	888.6	887.3
10°	878.1	877.0	873.5	882.2	881.6
12.5°	866.6	866.0	864.2	874.1	873.5
15°	852.1	852.6	852.6	864.2	864.2
17.5°	835.9	837.0	839.4	852.1	853.9
20°	816.7	819.1	823.7	838.2	840.5
22.5°	797.1	798.9	805.7	823.1	825.5
25°	772.8	777.4	786.6	806.4	809.9
27.5°	749.6	753.6	766.4	786.6	792.5
30°	722.4	728.8	743.9	765.9	772.3
32.5°	696.4	703.3	720.6	746.1	751.9
35°	665.2	675.5	697.5	723.0	729.9
37.5°	636.8	646.5	671.6	699.3	707.4
40°	605.4	617.7	646.1	675.5	683.7
42.5°	576.6	588.0	618.8	648.9	659.9
45°	541.8	558.1	589.8	622.8	634.4
47.5°	510.0	526.2	562.7	597.9	608.4
50°	478.1	495.5	533.7	570.2	580.6
52.5°	445.1	463.7	504.7	541.2	553.5
55°	410.4	431.9	474.7	511.7	522.7
57.5°	377.4	399.4	445.1	482.7	493.7
60°	345.0	367.7	414.5	450.4	462.0
62.5°	309.2	335.8	384.4	419.6	428.4
65°	276.7	303.9	351.4	386.6	396.5
67.5°	242.6	272.0	319.5	351.9	361.3
70°	210.2	240.8	286.5	316.7	320.6
72.5°	175.5	206.7	252.9	272.0	272.0
75°	144.1	175.9	218.8	222.3	219.4
77.5°	110.0	145.3	173.1	166.1	159.2
80°	79.4	114.1	126.7	114.1	104.7
82.5°	53.2	82.7	76.3	60.7	53.9
85°	29.5	44.0	30.1	16.7	12.1
87.5°	11.0	9.9	2.9	2.9	2.9
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)