

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: P880797

Luminaire Tested: **24CZ2-30VHE-B2750-W2D-2700K**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P880797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30VHE-B2750-W2D-2700K  
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

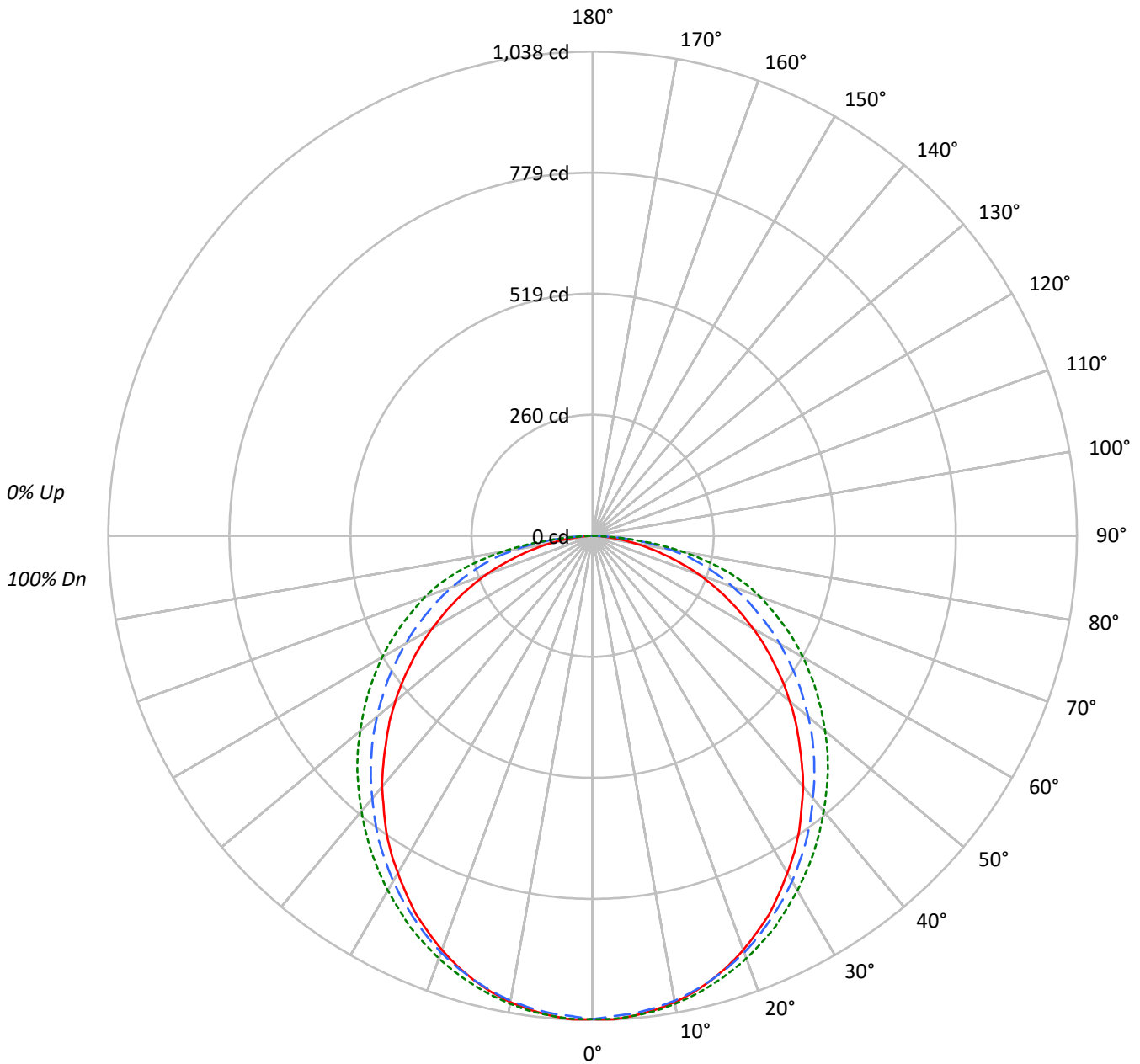
Lumens per Lamp: N/A  
Luminaire Lumens: 2999.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
Input Voltage (V): NR  
Input Current (Ain): 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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83								
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68								
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57								
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48								
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42								
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37								
7	64	50	41	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	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23								

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

	0°	45°	90°
0°	1463	1463	1463
5°	1463	1456	1463
10°	1455	1450	1460
15°	1441	1440	1454
20°	1419	1428	1448
25°	1394	1410	1441
30°	1360	1394	1431
35°	1330	1376	1425
40°	1294	1353	1419
45°	1249	1339	1424
50°	1212	1324	1428
55°	1167	1315	1444
60°	1119	1309	1470
65°	1066	1304	1508
70°	1004	1318	1577
75°	883	1345	1641
80°	736	1355	1582
85°	526	1161	1177



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.0	3.3
10°-20°	279.0	9.3
20°-30°	418.6	14.0
30°-40°	499.8	16.7
40°-50°	517.7	17.3
50°-60°	476.6	15.9
60°-70°	384.5	12.8
70°-80°	251.2	8.4
80°-90°	73.6	2.5
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°	795.6	26.5
0°-40°	1295.4	43.2
0°-60°	2289.7	76.3
0°-90°	2999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2999.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1033	1032	1028	1033	1033	98
15°	986	986	985	995	995	278
25°	895	897	906	922	925	412
35°	772	779	798	820	827	482
45°	626	642	671	701	713	484
55°	474	495	534	574	587	424
65°	319	341	391	435	452	316
75°	162	192	247	289	301	173
85°	32	56	72	76	73	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1036.3	1036.3	1036.3	1036.3	1036.3
2.5°	1037.8	1036.3	1031.0	1037.3	1036.8
5°	1032.9	1032.0	1027.6	1033.4	1032.9
7.5°	1025.2	1024.7	1021.3	1027.6	1027.6
10°	1015.5	1014.6	1012.1	1019.4	1018.9
12.5°	1002.0	1001.5	1000.0	1008.7	1008.3
15°	985.9	985.9	985.4	995.2	995.2
17.5°	966.6	967.1	969.0	980.1	980.6
20°	944.8	946.7	950.6	963.2	964.1
22.5°	920.0	923.9	929.2	943.3	944.8
25°	895.4	897.3	905.5	922.0	925.4
27.5°	865.3	870.2	880.9	897.8	901.2
30°	834.8	841.6	855.1	872.6	878.0
32.5°	804.7	810.6	826.6	846.4	852.7
35°	771.8	778.6	798.4	820.3	827.1
37.5°	735.4	746.1	767.0	792.1	799.4
40°	702.1	711.7	734.5	762.6	770.4
42.5°	663.8	675.9	703.5	732.1	741.7
45°	625.9	641.5	671.0	701.1	713.2
47.5°	590.6	603.2	638.1	672.0	682.6
50°	551.8	566.3	603.2	639.1	650.2
52.5°	513.6	531.0	568.3	606.1	618.2
55°	474.3	494.7	534.4	573.7	586.8
57.5°	436.5	456.9	498.0	539.7	553.3
60°	396.4	418.1	463.7	503.8	520.9
62.5°	357.6	379.3	427.3	470.9	486.9
65°	319.3	341.1	390.6	435.1	451.6
67.5°	279.6	303.3	356.1	399.3	415.2
70°	243.2	265.9	319.3	365.3	382.2
72.5°	201.5	228.7	283.0	328.4	344.5
75°	161.9	192.3	246.6	289.3	300.9
77.5°	125.0	155.6	209.7	241.8	249.0
80°	90.6	121.6	166.7	188.9	194.7
82.5°	58.6	90.6	120.6	135.6	137.6
85°	32.5	56.2	71.7	76.0	72.7
87.5°	11.6	21.3	20.8	16.9	13.5
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)