

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: P880812

Luminaire Tested: **24CZ2-30VHE-S-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: P880812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30VHE-S-B2750-W2D-2700K  
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

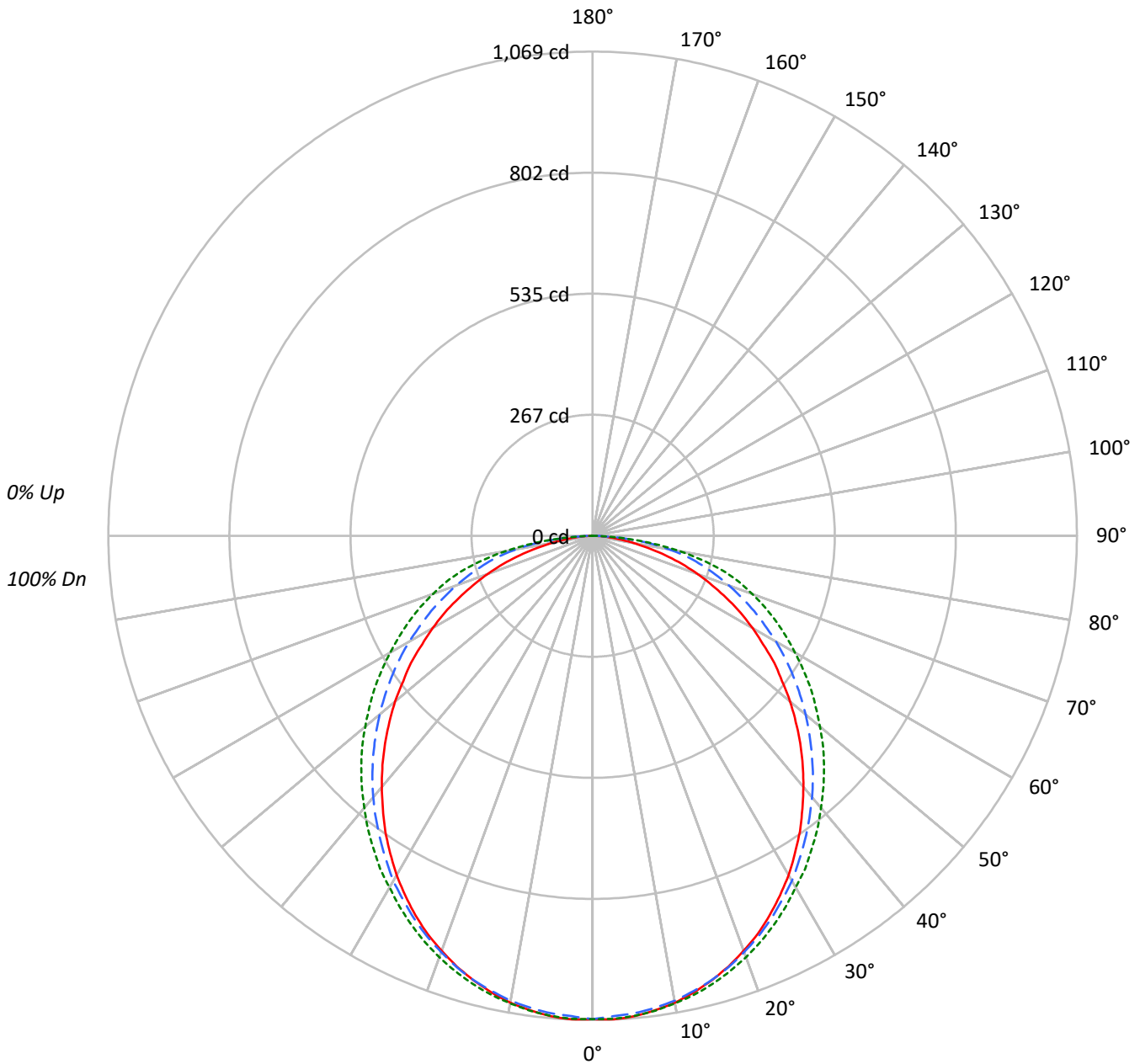
Lumens per Lamp: N/A  
Luminaire Lumens: 3058.0 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	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	38	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	38	30	26	37	30	25	36	30	25	24			

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

	0°	45°	90°
0°	1506	1506	1506
5°	1509	1499	1507
10°	1500	1494	1502
15°	1485	1484	1496
20°	1464	1469	1487
25°	1440	1452	1475
30°	1410	1434	1461
35°	1374	1409	1453
40°	1334	1388	1445
45°	1293	1366	1442
50°	1250	1348	1438
55°	1205	1331	1446
60°	1150	1318	1456
65°	1089	1313	1491
70°	1016	1320	1544
75°	904	1358	1627
80°	739	1388	1588
85°	521	1213	1237



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.9	3.3
10°-20°	287.4	9.4
20°-30°	430.8	14.1
30°-40°	513.1	16.8
40°-50°	529.1	17.3
50°-60°	482.8	15.8
60°-70°	386.0	12.6
70°-80°	252.2	8.2
80°-90°	75.7	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°	819.1	26.8
0°-40°	1332.2	43.6
0°-60°	2344.1	76.7
0°-90°	3058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3058.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1065	1063	1058	1065	1064	101
15°	1016	1017	1016	1024	1024	286
25°	925	926	933	946	947	426
35°	798	803	818	838	843	498
45°	648	660	685	713	722	500
55°	490	504	541	577	588	436
65°	326	348	393	432	447	323
75°	166	193	249	289	298	176
85°	32	58	75	76	76	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1067.4	1067.4	1067.4	1067.4	1067.4
2.5°	1068.9	1067.4	1061.8	1068.4	1067.4
5°	1064.9	1062.8	1058.3	1064.9	1063.9
7.5°	1056.8	1055.8	1051.3	1058.8	1057.8
10°	1046.8	1045.8	1042.3	1049.8	1048.3
12.5°	1032.7	1032.2	1029.7	1038.8	1037.8
15°	1016.1	1016.6	1015.6	1024.2	1024.2
17.5°	997.1	996.6	998.6	1009.1	1008.1
20°	974.9	975.4	977.9	990.1	990.1
22.5°	951.9	951.4	956.9	968.9	969.9
25°	924.7	926.2	932.7	946.4	947.4
27.5°	895.5	898.2	906.2	921.7	923.2
30°	865.0	868.0	880.0	894.5	896.5
32.5°	831.3	837.8	848.8	867.5	872.5
35°	797.6	803.1	817.8	838.3	843.3
37.5°	760.5	769.5	786.1	808.7	815.3
40°	723.8	732.9	753.4	777.1	784.1
42.5°	686.6	696.2	719.8	746.4	753.9
45°	648.0	659.5	684.6	713.3	722.3
47.5°	608.3	621.9	649.0	680.1	690.2
50°	569.1	582.7	613.8	645.9	655.0
52.5°	526.9	544.0	577.2	611.8	620.8
55°	489.8	503.8	541.0	576.7	587.7
57.5°	446.1	465.1	504.8	541.0	551.5
60°	407.4	424.9	467.1	503.8	515.8
62.5°	368.2	386.2	428.4	470.1	481.2
65°	326.0	348.1	393.3	431.9	446.6
67.5°	285.8	308.9	355.2	396.3	411.4
70°	246.1	269.7	320.0	362.2	374.2
72.5°	206.9	231.6	283.8	325.0	339.0
75°	165.8	193.4	249.1	289.3	298.3
77.5°	127.1	157.7	214.0	241.1	247.6
80°	90.9	124.6	170.8	190.4	195.4
82.5°	59.7	92.4	127.6	138.1	136.6
85°	32.2	57.7	74.9	76.4	76.4
87.5°	12.5	23.2	23.7	18.0	17.0
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)