

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: P880800

Luminaire Tested: **24CZ2-30VHE-B2750-W2D-4000K**

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: P880800  
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-4000K  
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

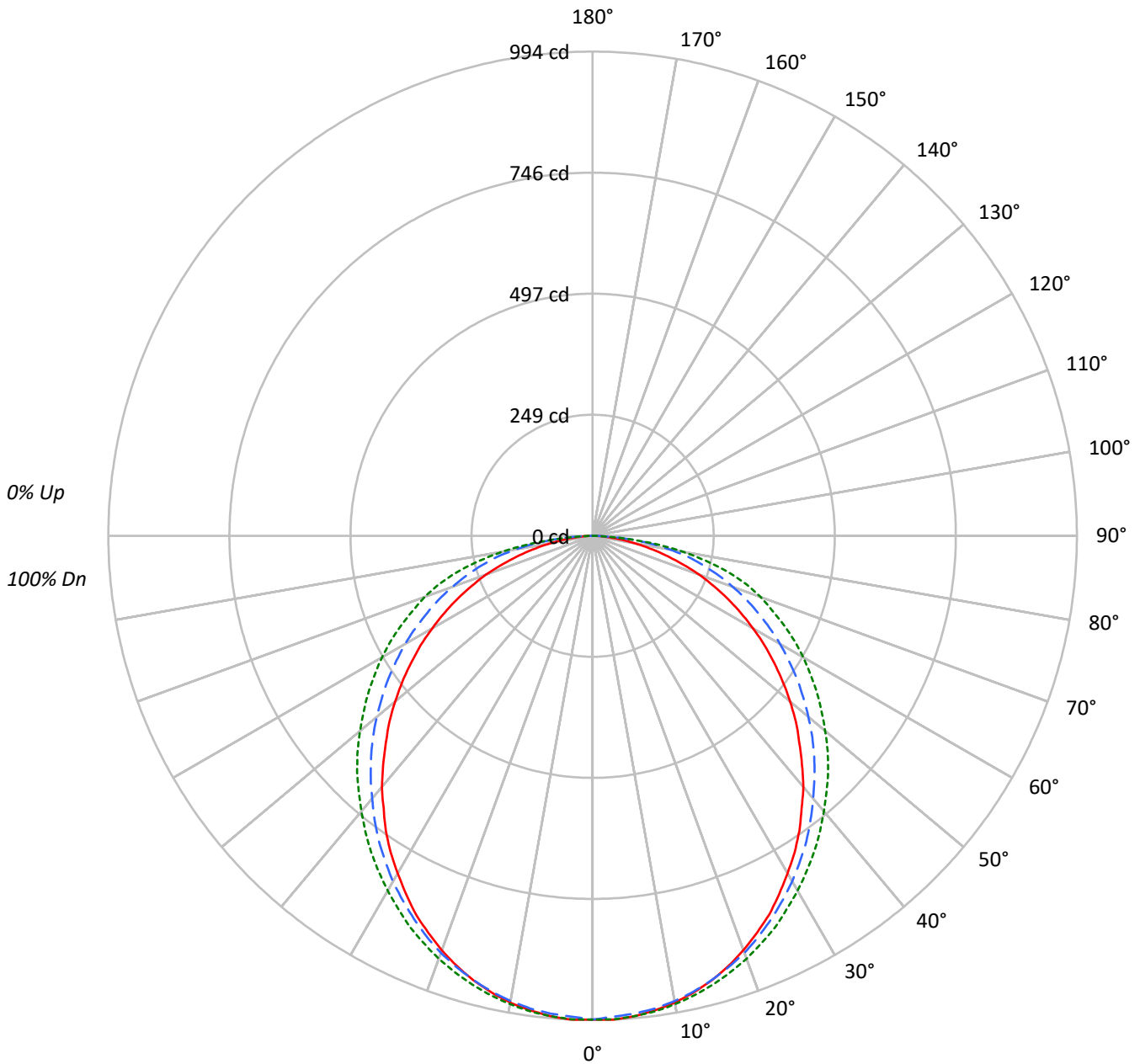
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2874.0 lumens  
Efficiency: N/A  
Efficacy: 125.0 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									
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	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°	1402	1402	1402
5°	1402	1395	1402
10°	1395	1390	1399
15°	1380	1380	1393
20°	1360	1368	1388
25°	1336	1351	1381
30°	1304	1336	1371
35°	1274	1318	1366
40°	1240	1297	1360
45°	1197	1283	1364
50°	1161	1269	1368
55°	1119	1260	1384
60°	1072	1254	1409
65°	1022	1250	1445
70°	962	1262	1512
75°	846	1289	1572
80°	706	1298	1517
85°	505	1112	1127



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.9	3.3
10°-20°	267.4	9.3
20°-30°	401.2	14.0
30°-40°	479.0	16.7
40°-50°	496.1	17.3
50°-60°	456.7	15.9
60°-70°	368.4	12.8
70°-80°	240.7	8.4
80°-90°	70.6	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°	762.5	26.5
0°-40°	1241.4	43.2
0°-60°	2194.3	76.3
0°-90°	2874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2874.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	990	989	985	990	990	94
15°	945	945	944	954	954	266
25°	858	860	868	884	887	395
35°	740	746	765	786	793	462
45°	600	615	643	672	684	464
55°	455	474	512	550	562	407
65°	306	327	374	417	433	303
75°	155	184	236	277	288	166
85°	31	54	69	73	70	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	993.1	993.1	993.1	993.1	993.1
2.5°	994.5	993.1	988.0	994.1	993.6
5°	989.9	989.0	984.8	990.3	989.9
7.5°	982.5	982.0	978.8	984.8	984.8
10°	973.2	972.3	969.9	976.9	976.4
12.5°	960.2	959.7	958.4	966.7	966.2
15°	944.8	944.8	944.4	953.7	953.7
17.5°	926.3	926.7	928.6	939.3	939.7
20°	905.4	907.3	911.0	923.0	924.0
22.5°	881.7	885.4	890.5	904.0	905.4
25°	858.0	859.9	867.8	883.5	886.8
27.5°	829.2	833.9	844.1	860.4	863.6
30°	800.0	806.5	819.5	836.3	841.4
32.5°	771.2	776.8	792.1	811.1	817.2
35°	739.7	746.1	765.1	786.1	792.6
37.5°	704.8	715.0	735.0	759.1	766.1
40°	672.8	682.1	703.9	730.8	738.3
42.5°	636.1	647.7	674.2	701.5	710.8
45°	599.8	614.8	643.0	671.9	683.5
47.5°	566.0	578.1	611.5	644.0	654.2
50°	528.8	542.7	578.1	612.5	623.1
52.5°	492.2	508.9	544.6	580.8	592.4
55°	454.6	474.0	512.1	549.8	562.3
57.5°	418.3	437.9	477.3	517.2	530.2
60°	379.8	400.7	444.4	482.8	499.2
62.5°	342.7	363.5	409.5	451.3	466.6
65°	305.9	326.9	374.3	416.9	432.8
67.5°	267.9	290.7	341.3	382.6	397.9
70°	233.1	254.9	305.9	350.1	366.3
72.5°	193.1	219.2	271.2	314.8	330.1
75°	155.1	184.3	236.3	277.2	288.3
77.5°	119.8	149.1	201.0	231.7	238.6
80°	86.9	116.5	159.7	181.1	186.6
82.5°	56.2	86.9	115.6	130.0	131.8
85°	31.2	53.9	68.7	72.9	69.6
87.5°	11.1	20.4	19.9	16.2	13.0
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)