

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: P880747

Luminaire Tested: **22CZ2-44VHE-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: P880747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-44VHE-B2750-W2D-2700K  
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

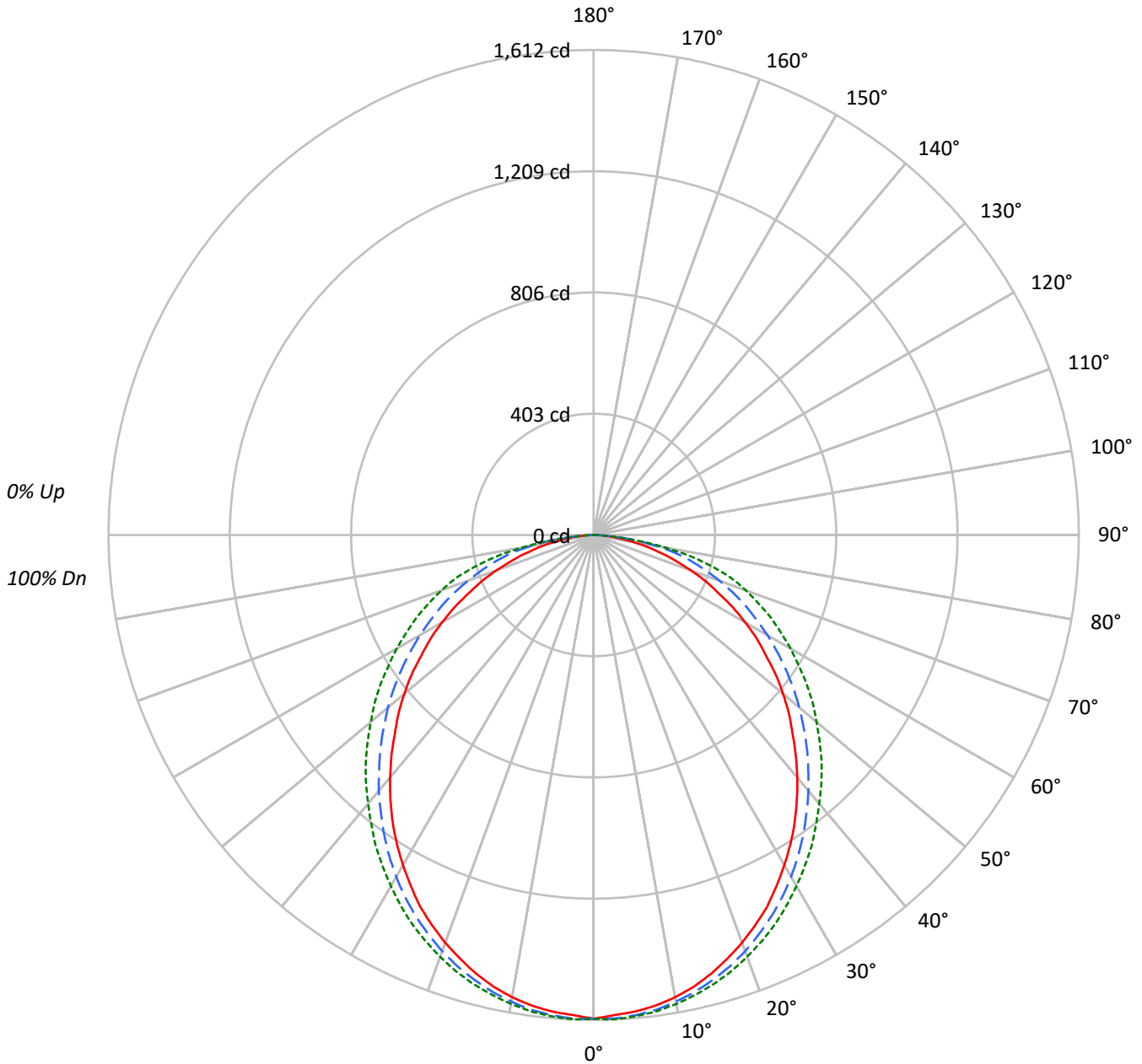
Lumens per Lamp: N/A  
Luminaire Lumens: 4434.0 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83								
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69								
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58								
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50								
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43								
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38								
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33								
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30								
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27								
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24								

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

	0°	45°	90°
0°	4563	4563	4563
5°	4529	4564	4575
10°	4496	4538	4561
15°	4435	4498	4539
20°	4355	4445	4505
25°	4269	4378	4468
30°	4151	4298	4415
35°	4035	4207	4373
40°	3898	4113	4318
45°	3749	4020	4298
50°	3627	3938	4265
55°	3458	3852	4274
60°	3302	3786	4286
65°	3070	3737	4354
70°	2838	3684	4462
75°	2538	3668	4491
80°	2128	3477	3919
85°	1651	2383	2227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.9	3.4
10°-20°	431.3	9.7
20°-30°	643.0	14.5
30°-40°	759.1	17.1
40°-50°	773.7	17.4
50°-60°	697.7	15.7
60°-70°	548.4	12.4
70°-80°	343.4	7.7
80°-90°	85.6	1.9
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°	1226.2	27.7
0°-40°	1985.3	44.8
0°-60°	3456.6	78.0
0°-90°	4434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4434.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1590	1594	1602	1606	1606	151
15°	1510	1516	1531	1542	1545	425
25°	1364	1374	1398	1420	1427	627
35°	1165	1180	1214	1248	1262	728
45°	934	955	1002	1050	1071	723
55°	699	721	779	839	864	627
65°	457	485	557	618	648	456
75°	232	266	335	394	410	246
85°	51	65	73	73	68	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1608.1	1608.1	1608.1	1608.1	1608.1
2.5°	1597.6	1601.5	1609.0	1611.8	1611.8
5°	1590.2	1593.9	1602.4	1606.1	1606.1
7.5°	1578.0	1581.7	1592.2	1596.7	1597.6
10°	1560.3	1564.8	1575.1	1582.8	1582.8
12.5°	1537.8	1542.4	1555.5	1564.8	1565.7
15°	1509.6	1516.1	1531.2	1542.4	1545.2
17.5°	1476.8	1487.1	1503.9	1518.1	1520.9
20°	1442.1	1452.4	1472.0	1488.0	1491.9
22.5°	1403.6	1413.0	1436.4	1456.3	1460.9
25°	1363.5	1373.7	1398.2	1419.6	1427.2
27.5°	1315.6	1327.9	1356.9	1381.1	1388.8
30°	1266.9	1282.0	1311.9	1339.0	1347.5
32.5°	1217.3	1231.3	1264.9	1294.0	1305.4
35°	1164.7	1179.8	1214.5	1248.1	1262.3
37.5°	1109.4	1124.5	1162.1	1200.3	1213.4
40°	1052.4	1070.1	1110.5	1151.6	1165.8
42.5°	994.3	1012.9	1055.0	1101.1	1119.7
45°	934.2	954.8	1001.7	1050.4	1071.0
47.5°	879.8	896.7	945.6	998.9	1018.5
50°	821.7	837.7	892.1	945.6	966.1
52.5°	762.8	777.8	835.9	892.1	917.4
55°	699.0	720.6	778.7	838.6	863.9
57.5°	642.8	662.5	722.6	783.3	807.8
60°	581.9	602.4	667.1	729.1	755.3
62.5°	521.0	543.5	609.0	675.6	700.1
65°	457.2	485.4	556.6	618.4	648.5
67.5°	403.0	430.1	500.4	565.1	591.3
70°	342.1	374.0	444.1	509.8	537.8
72.5°	284.8	316.7	388.8	454.6	482.5
75°	231.5	266.1	334.6	394.5	409.6
77.5°	180.0	212.8	281.1	315.9	331.8
80°	130.2	162.1	212.8	236.1	239.8
82.5°	88.0	115.3	144.4	150.9	147.2
85°	50.7	64.7	73.2	73.2	68.4
87.5°	20.5	20.5	17.9	11.1	6.6
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)