

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: P880795

Luminaire Tested: **22CZ2-50VHE-SQR-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: P880795  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-50VHE-SQR-B2750-W2D-4000K  
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

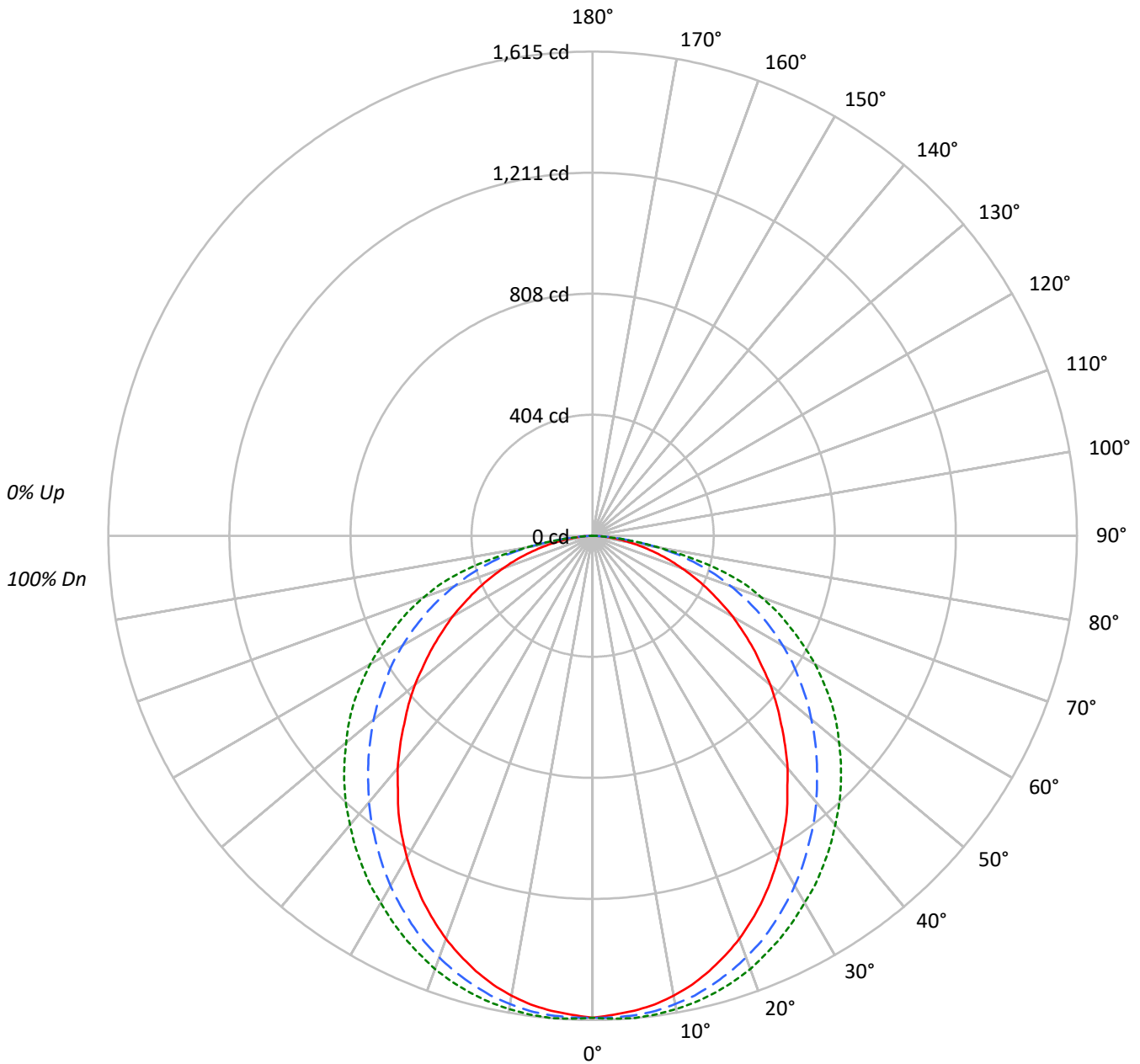
Lumens per Lamp: N/A  
Luminaire Lumens: 4603.0 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 42  
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	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	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

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

	0°	45°	90°
0°	4562	4562	4562
5°	4530	4574	4599
10°	4488	4570	4620
15°	4416	4550	4634
20°	4321	4519	4644
25°	4200	4473	4638
30°	4058	4417	4631
35°	3912	4351	4647
40°	3747	4298	4661
45°	3568	4243	4699
50°	3414	4205	4735
55°	3231	4171	4810
60°	3063	4155	4861
65°	2860	4122	4899
70°	2627	4059	4965
75°	2372	3951	4789
80°	2033	3500	3605
85°	1634	2061	1634



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.4	3.3
10°-20°	435.8	9.5
20°-30°	654.6	14.2
30°-40°	780.7	17.0
40°-50°	807.2	17.5
50°-60°	742.1	16.1
60°-70°	590.8	12.8
70°-80°	360.9	7.8
80°-90°	78.4	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°	1242.9	27.0
0°-40°	2023.6	44.0
0°-60°	3572.9	77.6
0°-90°	4603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4603.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1590	1595	1606	1612	1615	151
15°	1503	1521	1549	1571	1578	423
25°	1342	1374	1429	1468	1481	617
35°	1129	1178	1256	1322	1342	705
45°	889	952	1057	1143	1171	688
55°	653	725	843	939	972	584
65°	426	498	614	699	730	422
75°	216	280	360	424	437	230
85°	50	61	63	55	50	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1607.9	1607.9	1607.9	1607.9	1607.9
2.5°	1599.2	1601.2	1607.9	1612.4	1612.4
5°	1590.3	1594.8	1605.7	1612.4	1614.6
7.5°	1577.5	1583.9	1599.2	1607.9	1610.4
10°	1557.7	1566.6	1586.1	1599.2	1603.5
12.5°	1533.7	1546.8	1570.8	1588.4	1592.6
15°	1503.3	1520.6	1548.8	1570.8	1577.5
17.5°	1468.2	1489.9	1525.0	1551.3	1559.9
20°	1430.8	1452.8	1496.6	1527.0	1537.9
22.5°	1387.3	1415.7	1465.9	1501.1	1509.7
25°	1341.5	1374.2	1428.8	1468.2	1481.3
27.5°	1291.1	1330.6	1389.5	1437.7	1448.6
30°	1238.6	1280.2	1348.0	1400.4	1413.5
32.5°	1184.0	1232.2	1304.2	1363.3	1380.9
35°	1129.3	1177.5	1256.2	1322.0	1341.5
37.5°	1066.0	1122.9	1210.4	1278.2	1302.0
40°	1011.6	1066.0	1160.2	1234.4	1258.4
42.5°	950.2	1009.4	1107.8	1188.4	1216.9
45°	889.2	952.5	1057.3	1142.7	1171.1
47.5°	832.3	895.6	1004.9	1094.7	1122.9
50°	773.4	839.0	952.5	1044.2	1072.7
52.5°	710.1	782.1	900.0	991.8	1024.7
55°	653.2	725.2	843.2	939.4	972.3
57.5°	594.1	668.5	791.0	882.7	913.4
60°	539.7	611.7	732.1	821.4	856.5
62.5°	480.6	554.8	672.7	760.3	793.2
65°	425.9	498.1	613.9	699.2	729.6
67.5°	371.2	443.7	552.5	633.7	668.5
70°	316.6	389.1	489.2	568.1	598.5
72.5°	268.9	332.2	428.1	500.4	528.8
75°	216.4	279.7	360.4	423.7	436.8
77.5°	168.2	225.1	292.8	321.0	325.7
80°	124.4	168.2	214.2	220.6	220.6
82.5°	82.9	115.8	133.3	135.3	133.3
85°	50.2	61.1	63.3	54.7	50.2
87.5°	17.3	17.3	10.9	6.4	2.2
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)