

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: P881148

Luminaire Tested: **22CZ2-50VHE-SQR-UNV-B50**

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: P881148
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-UNV-B50
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

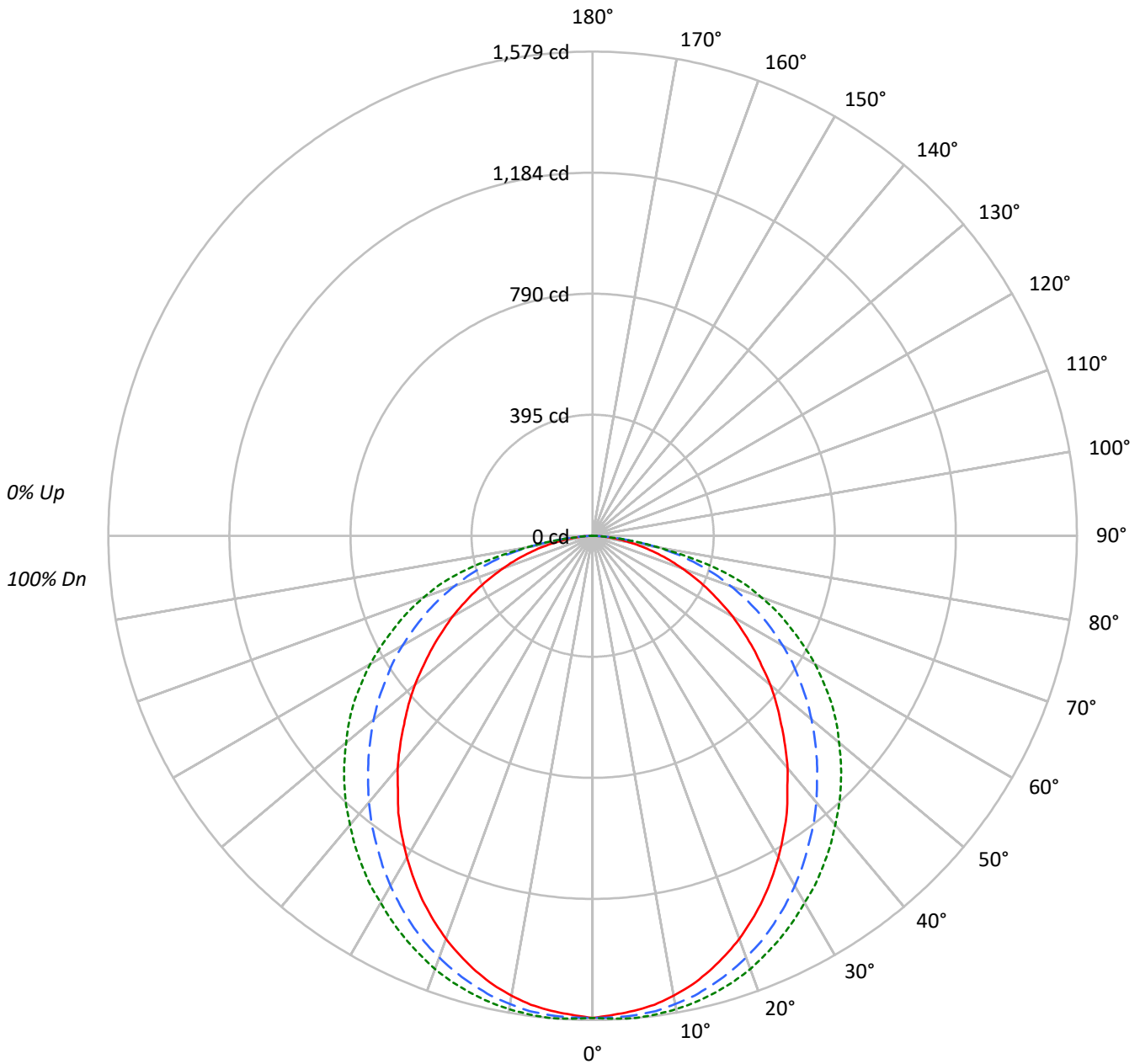
Lumens per Lamp: N/A
Luminaire Lumens: 4501.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	4461	4461	4461
5°	4430	4472	4497
10°	4389	4469	4518
15°	4318	4449	4531
20°	4225	4419	4541
25°	4107	4374	4535
30°	3969	4319	4529
35°	3825	4255	4544
40°	3664	4202	4558
45°	3489	4149	4596
50°	3339	4112	4630
55°	3160	4079	4703
60°	2995	4063	4753
65°	2796	4031	4791
70°	2569	3969	4856
75°	2320	3864	4682
80°	1989	3422	3525
85°	1599	2015	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	3.3
10°-20°	426.2	9.5
20°-30°	640.1	14.2
30°-40°	763.4	17.0
40°-50°	789.3	17.5
50°-60°	725.7	16.1
60°-70°	577.7	12.8
70°-80°	352.9	7.8
80°-90°	76.7	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°	1215.4	27.0
0°-40°	1978.8	44.0
0°-60°	3493.7	77.6
0°-90°	4501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4501.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1555	1560	1570	1577	1579	147
15°	1470	1487	1514	1536	1542	414
25°	1312	1344	1397	1436	1448	603
35°	1104	1152	1228	1293	1312	689
45°	870	931	1034	1117	1145	672
55°	639	709	824	919	951	571
65°	416	487	600	684	714	413
75°	212	274	352	414	427	225
85°	49	60	62	53	49	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1572.3	1572.3	1572.3	1572.3	1572.3
2.5°	1563.8	1565.7	1572.3	1576.6	1576.6
5°	1555.1	1559.5	1570.1	1576.6	1578.8
7.5°	1542.5	1548.8	1563.8	1572.3	1574.7
10°	1523.2	1531.9	1551.0	1563.8	1567.9
12.5°	1499.7	1512.5	1536.0	1553.2	1557.3
15°	1470.0	1486.9	1514.5	1536.0	1542.5
17.5°	1435.6	1456.9	1491.3	1516.9	1525.4
20°	1399.1	1420.6	1463.4	1493.2	1503.8
22.5°	1356.5	1384.4	1433.5	1467.8	1476.3
25°	1311.8	1343.7	1397.2	1435.6	1448.4
27.5°	1262.5	1301.2	1358.7	1405.9	1416.5
30°	1211.2	1251.8	1318.1	1369.4	1382.2
32.5°	1157.7	1204.9	1275.3	1333.1	1350.3
35°	1104.3	1151.5	1228.4	1292.7	1311.8
37.5°	1042.4	1098.0	1183.6	1249.9	1273.1
40°	989.2	1042.4	1134.5	1207.1	1230.5
42.5°	929.2	987.0	1083.3	1162.1	1189.9
45°	869.5	931.4	1033.9	1117.4	1145.2
47.5°	813.8	875.7	982.6	1070.4	1098.0
50°	756.3	820.4	931.4	1021.1	1048.9
52.5°	694.4	764.7	880.1	969.8	1002.0
55°	638.7	709.1	824.5	918.6	950.7
57.5°	580.9	653.7	773.4	863.2	893.2
60°	527.7	598.1	715.9	803.2	837.5
62.5°	469.9	542.5	657.8	743.5	775.6
65°	416.5	487.1	600.3	683.7	713.5
67.5°	363.0	433.9	540.3	619.6	653.7
70°	309.6	380.4	478.4	555.5	585.3
72.5°	262.9	324.8	418.6	489.3	517.1
75°	211.6	273.5	352.4	414.3	427.1
77.5°	164.5	220.1	286.4	313.9	318.5
80°	121.7	164.5	209.4	215.7	215.7
82.5°	81.0	113.2	130.4	132.3	130.4
85°	49.1	59.7	61.9	53.4	49.1
87.5°	16.9	16.9	10.6	6.3	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)