

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: P881146

Luminaire Tested: **22CZ2-50VHE-SQR-UNV-B35**

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: P881146
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-B35
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

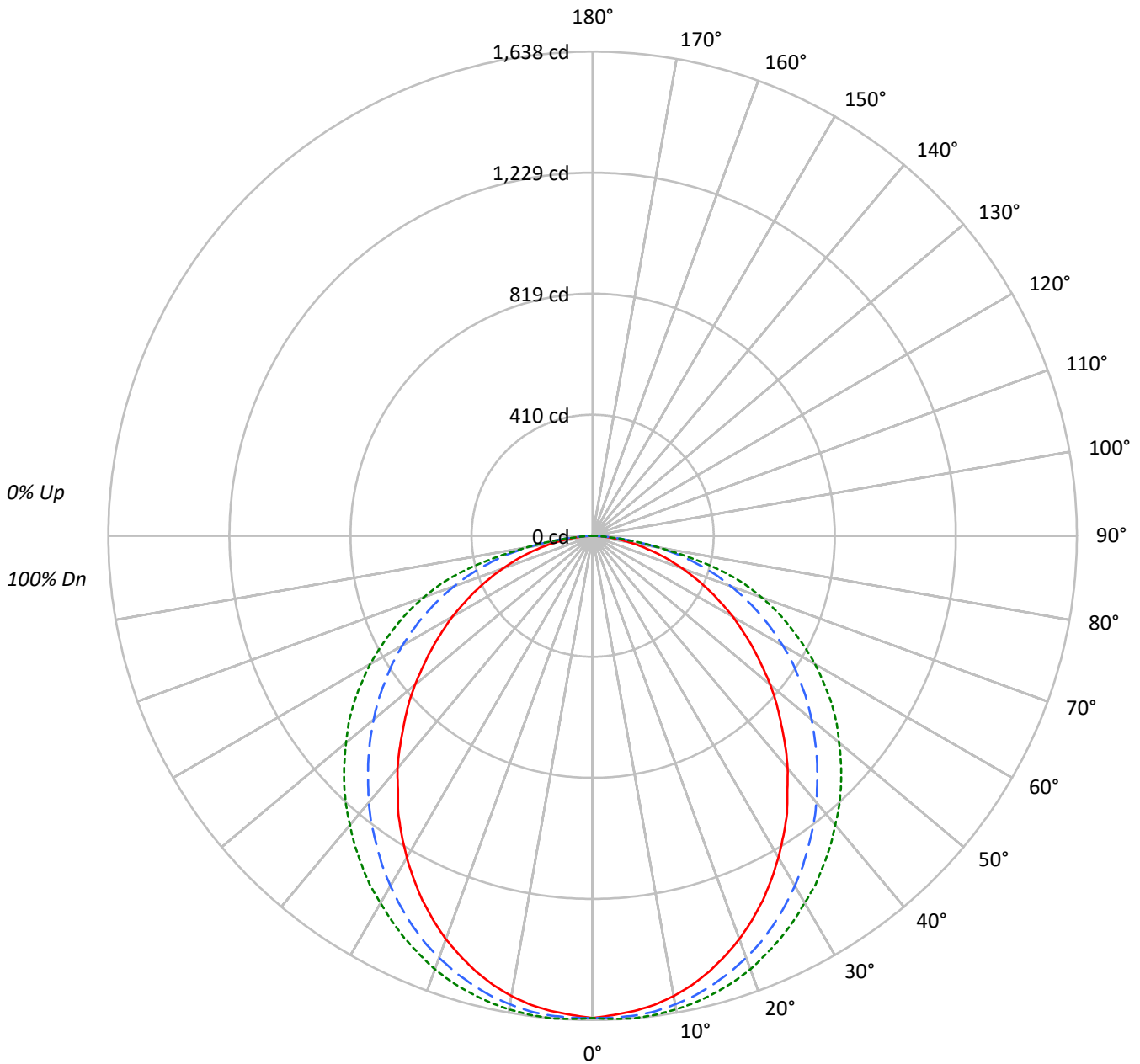
Lumens per Lamp: N/A
Luminaire Lumens: 4671.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	4630	4630	4630
5°	4597	4641	4667
10°	4554	4638	4688
15°	4481	4617	4703
20°	4385	4586	4712
25°	4262	4539	4706
30°	4118	4482	4700
35°	3970	4416	4716
40°	3802	4361	4730
45°	3621	4306	4769
50°	3464	4267	4805
55°	3279	4233	4881
60°	3108	4216	4933
65°	2902	4182	4971
70°	2666	4119	5039
75°	2408	4009	4859
80°	2062	3552	3659
85°	1660	2093	1660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	3.3
10°-20°	442.3	9.5
20°-30°	664.3	14.2
30°-40°	792.2	17.0
40°-50°	819.1	17.5
50°-60°	753.1	16.1
60°-70°	599.5	12.8
70°-80°	366.3	7.8
80°-90°	79.6	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°	1261.3	27.0
0°-40°	2053.5	44.0
0°-60°	3625.7	77.6
0°-90°	4671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1614	1618	1629	1636	1638	153
15°	1526	1543	1572	1594	1601	430
25°	1361	1394	1450	1490	1503	626
35°	1146	1195	1275	1342	1361	715
45°	902	966	1073	1160	1188	698
55°	663	736	856	953	987	593
65°	432	506	623	710	740	428
75°	220	284	366	430	443	234
85°	51	62	64	56	51	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.7	1631.7	1631.7	1631.7	1631.7
2.5°	1622.9	1624.9	1631.7	1636.2	1636.2
5°	1613.8	1618.4	1629.4	1636.2	1638.4
7.5°	1600.8	1607.3	1622.9	1631.7	1634.2
10°	1580.7	1589.7	1609.6	1622.9	1627.1
12.5°	1556.4	1569.7	1594.0	1611.8	1616.1
15°	1525.5	1543.1	1571.7	1594.0	1600.8
17.5°	1489.9	1511.9	1547.6	1574.2	1583.0
20°	1452.0	1474.3	1518.7	1549.6	1560.6
22.5°	1407.8	1436.6	1487.6	1523.2	1532.0
25°	1361.3	1394.5	1449.9	1489.9	1503.2
27.5°	1310.1	1350.3	1410.0	1459.0	1470.0
30°	1256.9	1299.1	1367.9	1421.1	1434.4
32.5°	1201.5	1250.4	1323.4	1383.4	1401.3
35°	1146.0	1194.9	1274.8	1341.5	1361.3
37.5°	1081.7	1139.5	1228.3	1297.1	1321.2
40°	1026.5	1081.7	1177.4	1252.7	1277.0
42.5°	964.3	1024.3	1124.2	1206.0	1234.9
45°	902.3	966.5	1073.0	1159.6	1188.4
47.5°	844.6	908.8	1019.8	1110.9	1139.5
50°	784.8	851.3	966.5	1059.7	1088.5
52.5°	720.6	793.6	913.3	1006.5	1039.8
55°	662.9	735.9	855.6	953.2	986.6
57.5°	602.9	678.4	802.7	895.8	926.9
60°	547.7	620.7	742.9	833.5	869.2
62.5°	487.7	563.0	682.7	771.5	804.9
65°	432.2	505.5	622.9	709.5	740.4
67.5°	376.7	450.3	560.7	643.0	678.4
70°	321.3	394.8	496.5	576.5	607.4
72.5°	272.8	337.1	434.5	507.7	536.6
75°	219.6	283.9	365.7	429.9	443.2
77.5°	170.7	228.4	297.2	325.8	330.5
80°	126.2	170.7	217.4	223.9	223.9
82.5°	84.1	117.5	135.3	137.3	135.3
85°	51.0	62.0	64.3	55.5	51.0
87.5°	17.6	17.6	11.0	6.5	2.3
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)