

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: P880793

Luminaire Tested: **22CZ2-50VHE-SQR-B2750-W2D-3000K**

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: P880793
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-3000K
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

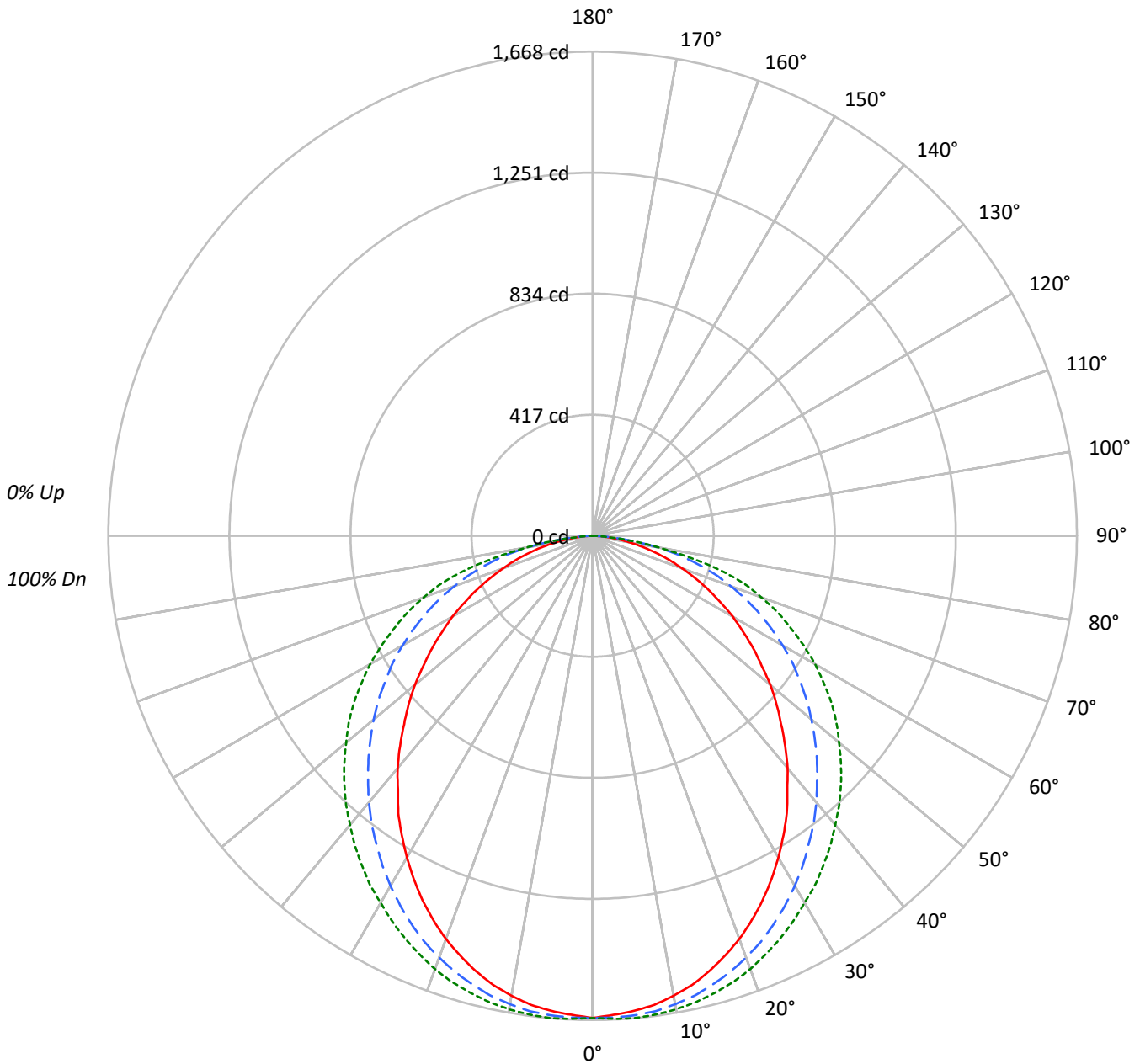
Lumens per Lamp: N/A
Luminaire Lumens: 4755.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	4713	4713	4713
5°	4680	4725	4751
10°	4636	4721	4773
15°	4562	4700	4787
20°	4463	4668	4797
25°	4339	4621	4791
30°	4192	4563	4784
35°	4041	4495	4800
40°	3871	4439	4815
45°	3686	4383	4855
50°	3527	4343	4892
55°	3338	4309	4969
60°	3164	4292	5021
65°	2954	4257	5060
70°	2713	4193	5130
75°	2451	4082	4947
80°	2100	3616	3724
85°	1690	2129	1690



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	3.3
10°-20°	450.2	9.5
20°-30°	676.2	14.2
30°-40°	806.5	17.0
40°-50°	833.8	17.5
50°-60°	766.6	16.1
60°-70°	610.3	12.8
70°-80°	372.9	7.8
80°-90°	81.0	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°	1283.9	27.0
0°-40°	2090.4	44.0
0°-60°	3690.9	77.6
0°-90°	4755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1661	1661	1661	1661	1661	
5°	1643	1648	1659	1666	1668	156
15°	1553	1571	1600	1623	1630	437
25°	1386	1420	1476	1517	1530	637
35°	1167	1216	1298	1366	1386	728
45°	918	984	1092	1180	1210	710
55°	675	749	871	970	1004	604
65°	440	515	634	722	754	436
75°	224	289	372	438	451	238
85°	52	63	65	56	52	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1661.0	1661.0	1661.0	1661.0	1661.0
2.5°	1652.1	1654.1	1661.0	1665.6	1665.6
5°	1642.9	1647.5	1658.7	1665.6	1667.9
7.5°	1629.6	1636.2	1652.1	1661.0	1663.6
10°	1609.1	1618.3	1638.5	1652.1	1656.4
12.5°	1584.4	1597.9	1622.7	1640.8	1645.2
15°	1552.9	1570.8	1599.9	1622.7	1629.6
17.5°	1516.6	1539.1	1575.4	1602.5	1611.4
20°	1478.1	1500.8	1546.0	1577.5	1588.7
22.5°	1433.1	1462.5	1514.3	1550.6	1559.6
25°	1385.8	1419.6	1476.0	1516.6	1530.2
27.5°	1333.7	1374.6	1435.4	1485.2	1496.5
30°	1279.5	1322.5	1392.5	1446.6	1460.2
32.5°	1223.1	1272.9	1347.2	1408.3	1426.5
35°	1166.6	1216.4	1297.7	1365.6	1385.8
37.5°	1101.2	1160.0	1250.4	1320.4	1344.9
40°	1045.0	1101.2	1198.5	1275.2	1300.0
42.5°	981.6	1042.7	1144.4	1227.7	1257.1
45°	918.5	983.9	1092.3	1180.4	1209.8
47.5°	859.8	925.2	1038.1	1130.8	1160.0
50°	798.9	866.7	983.9	1078.7	1108.1
52.5°	733.5	807.9	929.8	1024.6	1058.5
55°	674.8	749.1	871.0	970.4	1004.4
57.5°	613.7	690.6	817.1	911.9	943.6
60°	557.5	631.9	756.3	848.5	884.8
62.5°	496.4	573.1	695.0	785.4	819.4
65°	440.0	514.6	634.1	722.3	753.7
67.5°	383.5	458.4	570.8	654.6	690.6
70°	327.0	401.9	505.4	586.9	618.3
72.5°	277.7	343.1	442.3	516.9	546.3
75°	223.6	289.0	372.3	437.7	451.2
77.5°	173.7	232.5	302.5	331.6	336.5
80°	128.5	173.7	221.3	227.9	227.9
82.5°	85.6	119.6	137.7	139.8	137.7
85°	51.9	63.1	65.4	56.5	51.9
87.5°	17.9	17.9	11.2	6.6	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)