

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: P881252

Luminaire Tested: **24CZ2-60VHE-SQR-UNV-B40**

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: P881252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474669)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60VHE-SQR-UNV-B40
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

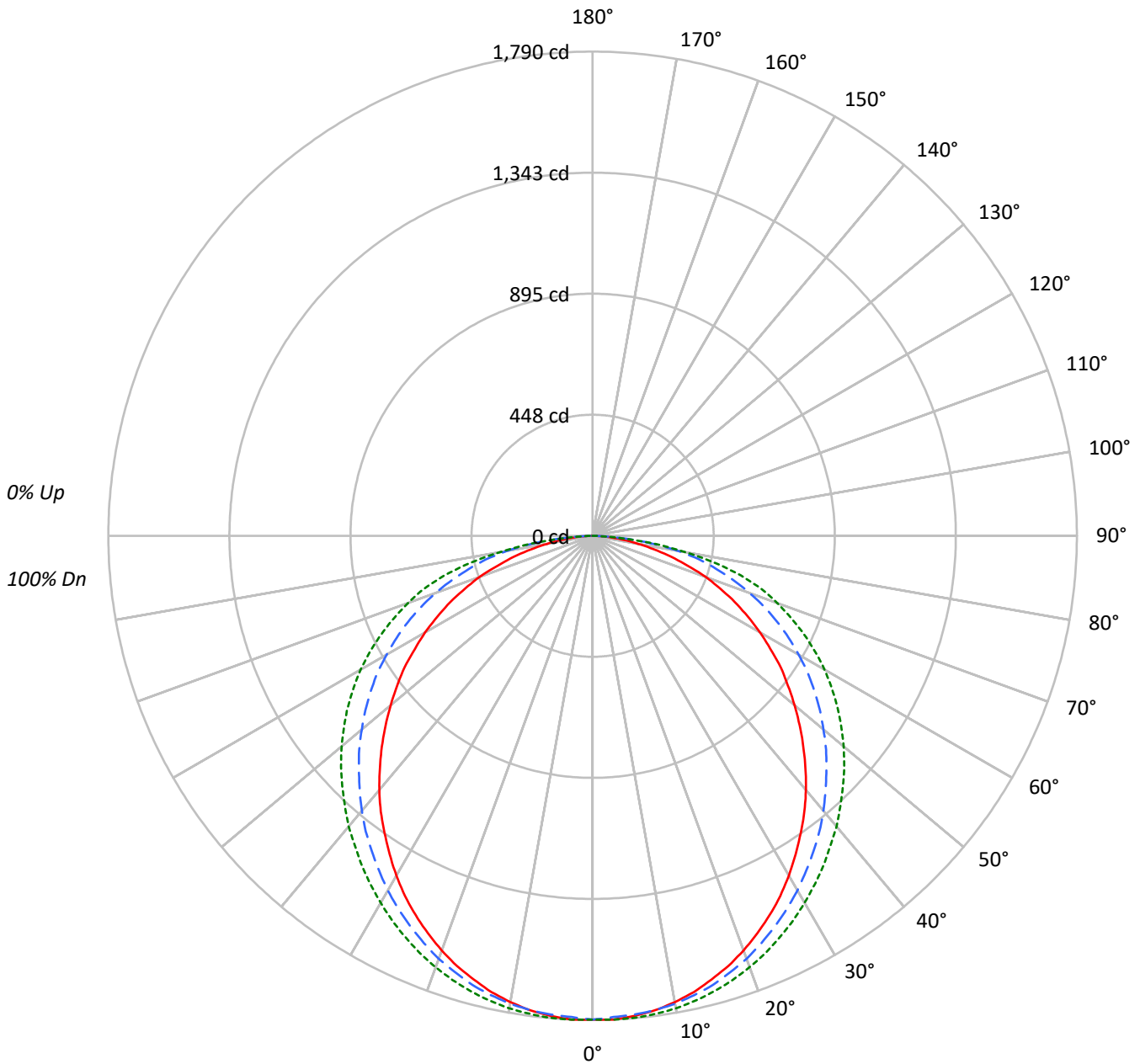
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5446.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

TEST NUMBER: P881252
CATALOG NUMBER: 24CZ2-60VHE-SQR-UNV-B40

Luminous Intensity Polar Plot





TEST NUMBER: P881252

CATALOG NUMBER: 24CZ2-60VHE-SQR-UNV-B40

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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2525	2525	2525
5°	2524	2517	2534
10°	2509	2517	2542
15°	2481	2512	2546
20°	2450	2500	2549
25°	2410	2482	2550
30°	2364	2467	2554
35°	2310	2452	2563
40°	2260	2445	2584
45°	2199	2438	2612
50°	2140	2445	2659
55°	2090	2462	2719
60°	2019	2481	2795
65°	1938	2511	2879
70°	1838	2545	2995
75°	1647	2581	3093
80°	1387	2589	2806
85°	1028	1958	1846



TEST NUMBER: P881252

CATALOG NUMBER: 24CZ2-60VHE-SQR-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	3.1
10°-20°	485.8	8.9
20°-30°	735.5	13.5
30°-40°	889.7	16.3
40°-50°	939.1	17.2
50°-60°	885.6	16.3
60°-70°	730.1	13.4
70°-80°	479.0	8.8
80°-90°	131.7	2.4
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°	1390.8	25.5
0°-40°	2280.5	41.9
0°-60°	4105.2	75.4
0°-90°	5446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1789	1789	1789	1789	1789	
5°	1782	1782	1777	1789	1789	169
15°	1698	1708	1719	1739	1743	479
25°	1548	1567	1594	1627	1637	713
35°	1341	1376	1423	1472	1488	839
45°	1102	1151	1222	1287	1308	850
55°	849	909	1001	1075	1105	757
65°	580	650	752	832	862	573
75°	302	379	473	548	567	319
85°	64	110	121	117	114	79
90°	0	0	0	0	0	



TEST NUMBER: P881252

CATALOG NUMBER: 24CZ2-60VHE-SQR-UNV-B40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1788.9	1788.9	1788.9	1788.9	1788.9
2.5°	1790.5	1788.9	1781.1	1791.4	1790.5
5°	1781.8	1781.8	1776.7	1788.9	1788.9
7.5°	1769.6	1770.6	1768.7	1782.7	1782.7
10°	1750.6	1754.0	1756.6	1772.4	1774.0
12.5°	1727.9	1734.1	1739.2	1758.4	1760.2
15°	1698.3	1707.9	1719.2	1739.2	1742.8
17.5°	1667.8	1679.3	1691.4	1717.6	1721.9
20°	1631.4	1644.4	1664.4	1690.5	1697.4
22.5°	1590.5	1608.7	1629.6	1660.9	1669.7
25°	1547.9	1566.9	1594.0	1627.0	1637.4
27.5°	1501.8	1524.3	1554.8	1593.1	1604.3
30°	1450.4	1476.4	1514.0	1554.8	1566.9
32.5°	1396.4	1426.9	1468.6	1514.0	1527.8
35°	1340.8	1375.5	1423.4	1472.2	1487.8
37.5°	1285.9	1320.7	1377.3	1428.7	1443.4
40°	1226.7	1265.0	1326.9	1381.7	1402.5
42.5°	1164.1	1209.5	1274.6	1335.6	1355.5
45°	1101.5	1151.0	1221.6	1286.8	1308.5
47.5°	1038.0	1092.8	1170.3	1236.3	1261.5
50°	974.5	1032.7	1113.7	1185.0	1211.1
52.5°	910.0	971.0	1058.8	1134.5	1158.1
55°	849.3	909.1	1000.6	1075.4	1104.9
57.5°	778.7	846.5	943.1	1018.9	1047.6
60°	715.2	781.4	878.8	958.9	990.1
62.5°	646.4	714.2	817.0	897.0	927.5
65°	580.3	650.0	751.8	831.8	862.1
67.5°	509.0	582.1	686.5	764.0	793.5
70°	445.5	514.3	616.8	696.1	725.7
72.5°	368.0	446.4	544.6	623.0	655.1
75°	302.0	379.3	473.3	548.2	567.3
77.5°	232.3	309.8	402.9	451.5	464.6
80°	170.6	243.5	318.5	344.6	345.3
82.5°	114.9	179.3	221.9	235.0	233.2
85°	63.5	109.6	120.9	117.4	114.0
87.5°	26.1	36.5	29.6	20.9	16.5
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)