

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: P881240

Luminaire Tested: **24CZ2-55VHE-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: P881240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55VHE-UNV-B40
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

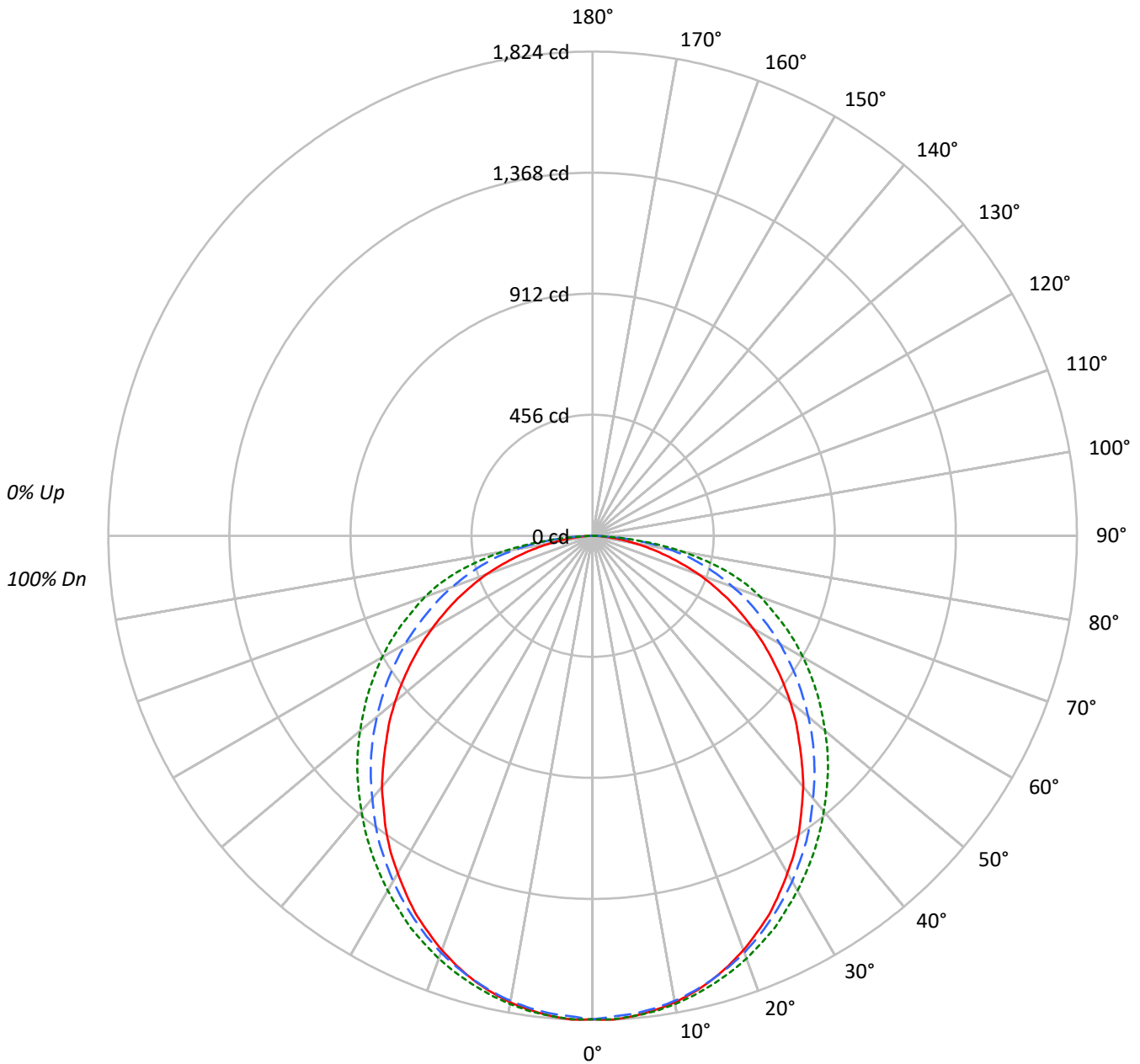
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5272.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 43
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68																			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57																			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48																			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42																			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37																			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2571	2571	2571
5°	2572	2559	2572
10°	2558	2550	2567
15°	2532	2531	2556
20°	2495	2510	2546
25°	2451	2479	2533
30°	2392	2450	2515
35°	2338	2418	2505
40°	2274	2379	2495
45°	2196	2354	2502
50°	2130	2328	2510
55°	2052	2312	2538
60°	1967	2301	2584
65°	1874	2293	2651
70°	1764	2316	2773
75°	1551	2364	2884
80°	1296	2381	2782
85°	925	2040	2068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	3.3
10°-20°	490.5	9.3
20°-30°	735.9	14.0
30°-40°	878.6	16.7
40°-50°	910.1	17.3
50°-60°	837.8	15.9
60°-70°	675.8	12.8
70°-80°	441.6	8.4
80°-90°	129.4	2.5
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°	1398.7	26.5
0°-40°	2277.3	43.2
0°-60°	4025.2	76.3
0°-90°	5272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1822	1822	1822	1822	1822	
5°	1816	1814	1806	1817	1816	172
15°	1733	1733	1732	1750	1750	488
25°	1574	1577	1592	1621	1627	724
35°	1357	1369	1404	1442	1454	848
45°	1100	1128	1180	1232	1254	851
55°	834	870	940	1008	1032	746
65°	561	600	687	765	794	555
75°	284	338	434	508	529	304
85°	57	99	126	134	128	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1821.8	1821.8	1821.8	1821.8	1821.8
2.5°	1824.3	1821.8	1812.4	1823.5	1822.6
5°	1815.8	1814.1	1806.5	1816.7	1815.8
7.5°	1802.2	1801.4	1795.4	1806.5	1806.5
10°	1785.2	1783.5	1779.2	1792.0	1791.2
12.5°	1761.4	1760.5	1758.0	1773.3	1772.4
15°	1733.2	1733.2	1732.3	1749.5	1749.5
17.5°	1699.1	1700.0	1703.4	1723.0	1723.8
20°	1660.9	1664.3	1671.1	1693.2	1694.9
22.5°	1617.3	1624.1	1633.5	1658.3	1660.9
25°	1574.0	1577.4	1591.8	1620.7	1626.7
27.5°	1521.1	1529.8	1548.5	1578.2	1584.2
30°	1467.5	1479.4	1503.2	1534.0	1543.4
32.5°	1414.6	1425.0	1453.1	1487.9	1499.0
35°	1356.8	1368.7	1403.6	1442.0	1453.9
37.5°	1292.9	1311.6	1348.3	1392.5	1405.3
40°	1234.2	1251.2	1291.2	1340.6	1354.3
42.5°	1166.8	1188.1	1236.7	1286.9	1303.9
45°	1100.3	1127.7	1179.6	1232.5	1253.7
47.5°	1038.3	1060.4	1121.8	1181.3	1200.0
50°	970.1	995.6	1060.4	1123.5	1143.0
52.5°	902.9	933.5	999.0	1065.5	1086.7
55°	833.8	869.6	939.5	1008.5	1031.5
57.5°	767.3	803.2	875.5	948.8	972.6
60°	696.8	735.0	815.1	885.7	915.6
62.5°	628.6	666.8	751.2	827.9	856.0
65°	561.2	599.7	686.6	764.8	793.9
67.5°	491.5	533.2	626.0	701.9	729.9
70°	427.6	467.5	561.2	642.2	671.9
72.5°	354.3	402.0	497.4	577.4	605.6
75°	284.5	338.1	433.5	508.5	528.9
77.5°	219.7	273.5	368.7	425.0	437.8
80°	159.4	213.8	293.0	332.1	342.3
82.5°	103.1	159.4	212.1	238.4	241.8
85°	57.1	98.8	126.0	133.7	127.7
87.5°	20.4	37.4	36.6	29.8	23.8
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)