

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: P881234

Luminaire Tested: **24CZ2-55VHE-S-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: P881234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55VHE-S-UNV-B40
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

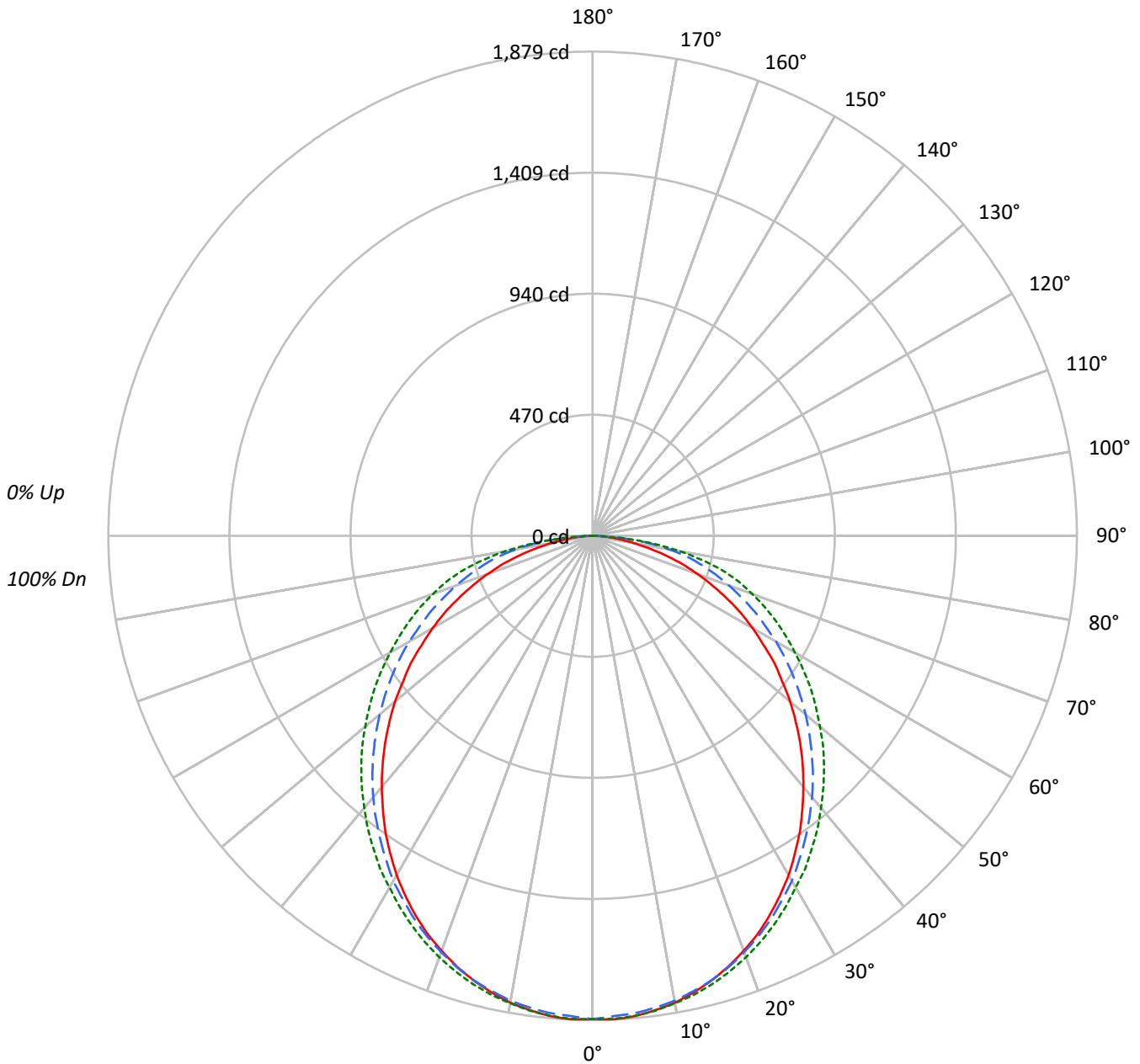
Lumens per Lamp: N/A
Luminaire Lumens: 5375.0 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68																			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57																			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2648	2648	2648
5°	2652	2635	2649
10°	2637	2625	2641
15°	2610	2608	2630
20°	2574	2582	2614
25°	2531	2553	2593
30°	2478	2521	2568
35°	2416	2477	2554
40°	2344	2440	2539
45°	2273	2402	2534
50°	2197	2369	2528
55°	2118	2340	2542
60°	2021	2317	2559
65°	1914	2308	2621
70°	1785	2321	2714
75°	1589	2388	2860
80°	1299	2440	2792
85°	915	2131	2173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	3.3
10°-20°	505.2	9.4
20°-30°	757.2	14.1
30°-40°	901.9	16.8
40°-50°	929.9	17.3
50°-60°	848.6	15.8
60°-70°	678.5	12.6
70°-80°	443.2	8.2
80°-90°	133.1	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°	1439.8	26.8
0°-40°	2341.7	43.6
0°-60°	4120.2	76.7
0°-90°	5375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1876	1876	1876	1876	1876	
5°	1872	1868	1860	1872	1870	178
15°	1786	1787	1785	1800	1800	503
25°	1625	1628	1639	1663	1665	748
35°	1402	1412	1437	1474	1482	876
45°	1139	1159	1203	1254	1270	878
55°	861	886	951	1014	1033	767
65°	573	612	691	759	785	568
75°	291	340	438	508	524	310
85°	56	102	132	134	134	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1876.2	1876.2	1876.2	1876.2	1876.2
2.5°	1878.8	1876.2	1866.3	1877.9	1876.2
5°	1871.8	1868.1	1860.2	1871.8	1870.0
7.5°	1857.5	1855.8	1847.8	1861.0	1859.3
10°	1839.9	1838.1	1832.0	1845.2	1842.5
12.5°	1815.2	1814.4	1810.0	1825.8	1824.0
15°	1786.0	1786.9	1785.1	1800.3	1800.3
17.5°	1752.5	1751.6	1755.2	1773.7	1771.9
20°	1713.6	1714.5	1718.9	1740.2	1740.2
22.5°	1673.1	1672.2	1681.9	1703.0	1704.8
25°	1625.3	1628.0	1639.4	1663.4	1665.2
27.5°	1574.1	1578.7	1592.8	1620.1	1622.7
30°	1520.4	1525.6	1546.8	1572.3	1575.8
32.5°	1461.2	1472.6	1492.0	1524.8	1533.6
35°	1402.0	1411.7	1437.4	1473.5	1482.3
37.5°	1336.6	1352.5	1381.7	1421.4	1433.0
40°	1272.2	1288.2	1324.3	1365.9	1378.2
42.5°	1206.8	1223.7	1265.1	1312.0	1325.2
45°	1139.0	1159.3	1203.3	1253.7	1269.5
47.5°	1069.2	1093.0	1140.8	1195.4	1213.2
50°	1000.4	1024.1	1078.9	1135.3	1151.3
52.5°	926.2	956.1	1014.5	1075.4	1091.3
55°	860.9	885.5	950.9	1013.6	1033.0
57.5°	784.0	817.5	887.3	950.9	969.4
60°	716.1	746.9	821.0	885.5	906.7
62.5°	647.2	678.9	753.0	826.3	845.9
65°	573.0	611.8	691.2	759.2	784.9
67.5°	502.4	542.9	624.3	696.5	723.1
70°	432.6	474.0	562.5	636.6	657.7
72.5°	363.8	407.1	498.9	571.3	595.9
75°	291.4	340.0	437.9	508.5	524.4
77.5°	223.4	277.3	376.1	423.8	435.3
80°	159.8	219.0	300.2	334.7	343.5
82.5°	105.0	162.4	224.2	242.7	240.1
85°	56.5	101.5	131.6	134.2	134.2
87.5°	22.0	40.7	41.6	31.7	29.9
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)