

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: P881235

Luminaire Tested: **24CZ2-55VHE-S-UNV-B50**

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: P881235
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-B50
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

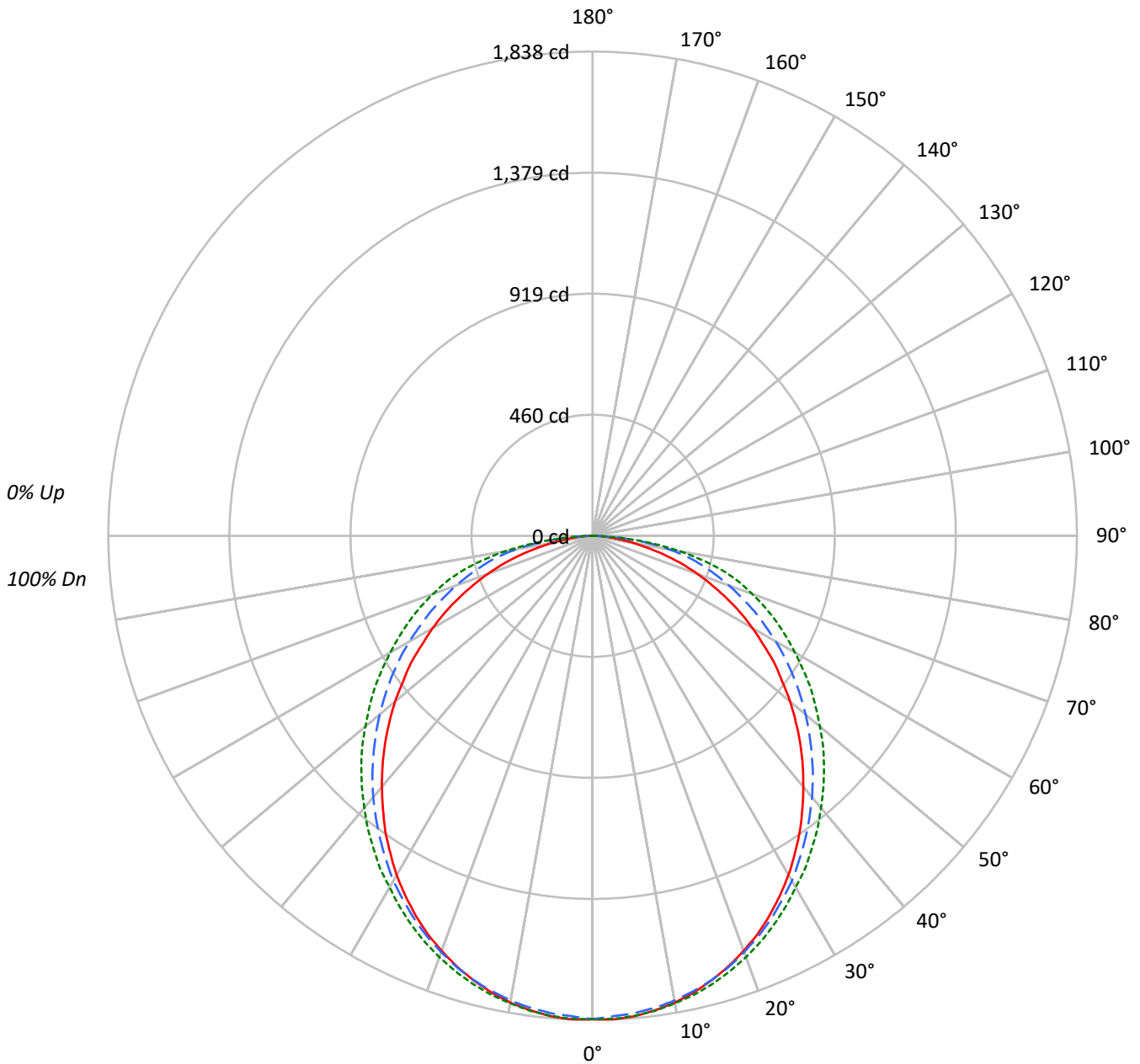
Lumens per Lamp: N/A
Luminaire Lumens: 5257.0 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2590	2590	2590
5°	2594	2577	2591
10°	2579	2568	2583
15°	2552	2551	2573
20°	2517	2525	2556
25°	2476	2497	2536
30°	2423	2465	2512
35°	2362	2422	2498
40°	2292	2386	2484
45°	2223	2349	2478
50°	2148	2317	2472
55°	2072	2288	2486
60°	1977	2267	2503
65°	1871	2258	2564
70°	1746	2270	2655
75°	1554	2336	2797
80°	1270	2386	2731
85°	895	2084	2126



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	3.3
10°-20°	494.1	9.4
20°-30°	740.6	14.1
30°-40°	882.1	16.8
40°-50°	909.5	17.3
50°-60°	829.9	15.8
60°-70°	663.6	12.6
70°-80°	433.5	8.2
80°-90°	130.1	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°	1408.2	26.8
0°-40°	2290.3	43.6
0°-60°	4029.7	76.7
0°-90°	5257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1835	1835	1835	1835	1835	
5°	1831	1827	1819	1831	1829	174
15°	1747	1748	1746	1761	1761	492
25°	1590	1592	1603	1627	1629	732
35°	1371	1381	1406	1441	1450	857
45°	1114	1134	1177	1226	1242	859
55°	842	866	930	991	1010	750
65°	560	598	676	742	768	556
75°	285	332	428	497	513	303
85°	55	99	129	131	131	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1835.0	1835.0	1835.0	1835.0	1835.0
2.5°	1837.6	1835.0	1825.4	1836.7	1835.0
5°	1830.7	1827.1	1819.3	1830.7	1829.0
7.5°	1816.7	1815.0	1807.3	1820.2	1818.5
10°	1799.5	1797.8	1791.8	1804.7	1802.1
12.5°	1775.4	1774.5	1770.2	1785.7	1784.0
15°	1746.8	1747.7	1745.9	1760.7	1760.7
17.5°	1714.1	1713.2	1716.6	1734.7	1733.0
20°	1676.0	1676.8	1681.1	1702.0	1702.0
22.5°	1636.4	1635.5	1645.0	1665.6	1667.4
25°	1589.7	1592.3	1603.4	1626.9	1628.6
27.5°	1539.5	1544.0	1557.8	1584.5	1587.1
30°	1487.0	1492.2	1512.8	1537.8	1541.3
32.5°	1429.1	1440.3	1459.2	1491.3	1499.9
35°	1371.2	1380.7	1405.8	1441.2	1449.8
37.5°	1307.3	1322.8	1351.4	1390.2	1401.5
40°	1244.2	1259.9	1295.2	1335.9	1348.0
42.5°	1180.3	1196.9	1237.3	1283.2	1296.1
45°	1114.0	1133.8	1176.9	1226.1	1241.7
47.5°	1045.8	1069.0	1115.7	1169.1	1186.5
50°	978.4	1001.7	1055.2	1110.4	1126.0
52.5°	905.9	935.2	992.2	1051.8	1067.3
55°	842.0	866.1	930.0	991.3	1010.3
57.5°	766.8	799.6	867.8	930.0	948.1
60°	700.3	730.5	803.0	866.1	886.7
62.5°	633.0	664.0	736.5	808.2	827.3
65°	560.4	598.3	676.0	742.5	767.7
67.5°	491.4	531.0	610.6	681.2	707.2
70°	423.1	463.6	550.1	622.6	643.3
72.5°	355.8	398.1	487.9	558.7	582.8
75°	285.0	332.5	428.3	497.4	512.9
77.5°	218.5	271.2	367.8	414.5	425.7
80°	156.3	214.1	293.6	327.3	336.0
82.5°	102.7	158.8	219.3	237.4	234.8
85°	55.3	99.2	128.7	131.3	131.3
87.5°	21.5	39.8	40.7	31.0	29.3
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)