

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: P843143

Luminaire Tested: **24CZ2-55HE-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-55HE-UNV-B40  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

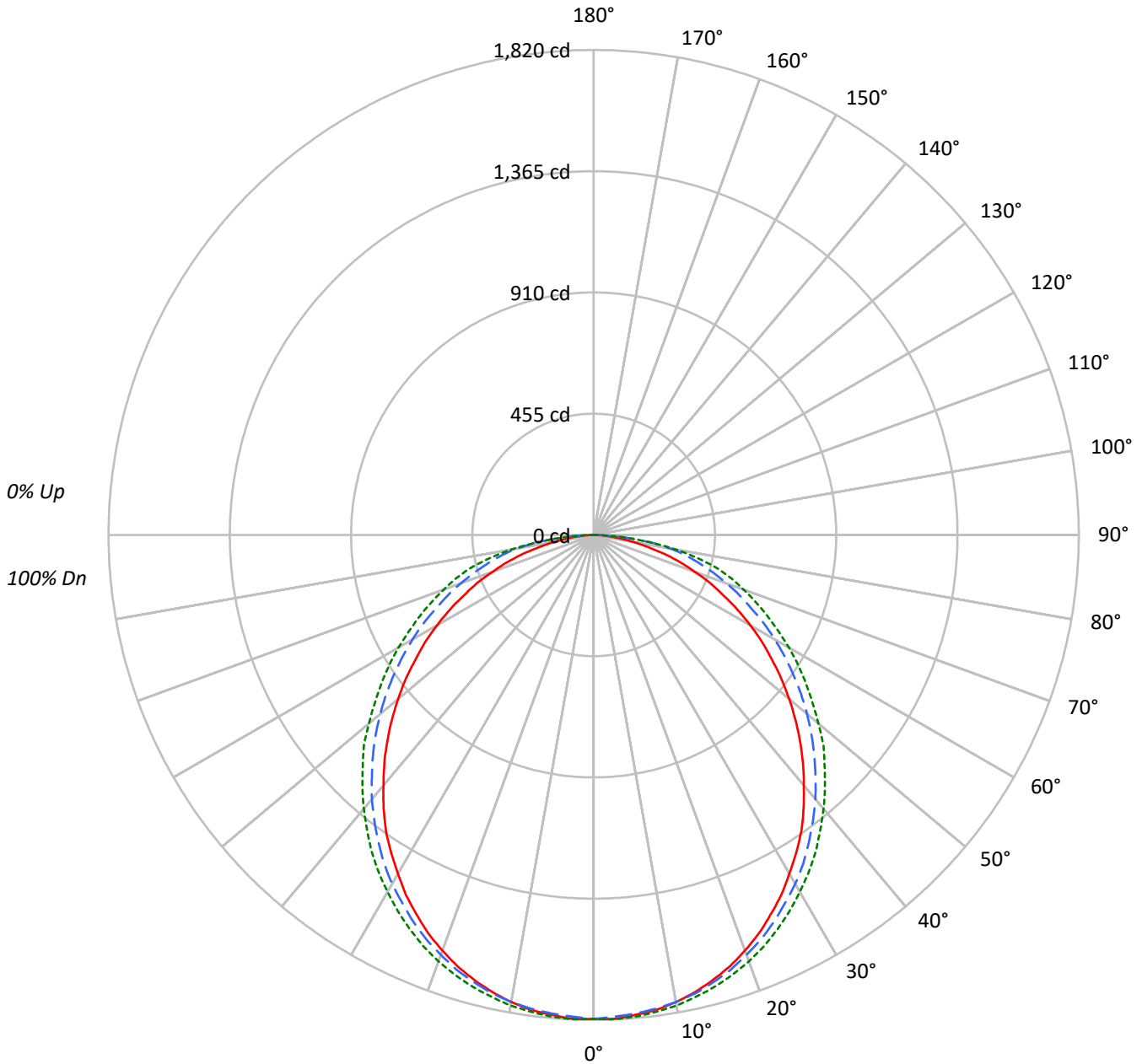
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5170.0 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 42  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	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°	2563	2563	2563
5°	2561	2555	2571
10°	2551	2551	2570
15°	2527	2539	2565
20°	2493	2518	2558
25°	2447	2493	2542
30°	2393	2465	2521
35°	2340	2425	2501
40°	2260	2384	2472
45°	2186	2337	2445
50°	2102	2293	2416
55°	2008	2251	2392
60°	1915	2216	2387
65°	1793	2177	2402
70°	1660	2189	2466
75°	1486	2230	2605
80°	1201	2363	2549
85°	904	2073	2021



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.9	3.3
10°-20°	491.3	9.5
20°-30°	738.5	14.3
30°-40°	879.7	17.0
40°-50°	900.4	17.4
50°-60°	810.6	15.7
60°-70°	636.6	12.3
70°-80°	413.1	8.0
80°-90°	127.8	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°	1401.8	27.1
0°-40°	2281.5	44.1
0°-60°	3992.5	77.2
0°-90°	5170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5170.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1808	1811	1803	1813	1815	172
15°	1729	1734	1737	1752	1756	488
25°	1572	1585	1601	1627	1632	724
35°	1358	1374	1407	1442	1452	847
45°	1095	1122	1171	1215	1225	844
55°	816	852	915	962	972	732
65°	537	578	652	706	719	535
75°	273	325	409	465	478	288
85°	56	104	128	125	125	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1816.3	1816.3	1816.3	1816.3	1816.3
2.5°	1817.9	1817.9	1809.6	1817.9	1819.5
5°	1808.0	1811.4	1803.1	1813.0	1814.6
7.5°	1798.1	1798.1	1793.2	1803.1	1804.9
10°	1780.1	1781.7	1780.1	1791.6	1793.2
12.5°	1757.2	1760.3	1762.1	1773.6	1775.2
15°	1729.3	1734.2	1737.4	1752.2	1755.6
17.5°	1698.0	1703.0	1711.1	1727.5	1730.9
20°	1660.2	1666.8	1676.7	1698.0	1703.0
22.5°	1619.3	1625.8	1642.2	1661.8	1670.1
25°	1571.6	1584.6	1601.1	1627.4	1632.3
27.5°	1523.9	1535.4	1556.7	1584.6	1591.4
30°	1468.1	1486.1	1512.4	1540.3	1546.9
32.5°	1413.9	1431.9	1463.2	1492.8	1501.0
35°	1358.1	1374.5	1407.4	1441.8	1451.7
37.5°	1294.0	1315.4	1351.6	1386.0	1395.9
40°	1226.7	1253.0	1294.0	1330.2	1341.7
42.5°	1162.6	1190.5	1231.7	1271.0	1284.1
45°	1095.3	1121.7	1170.9	1215.2	1225.1
47.5°	1026.3	1056.0	1108.4	1152.7	1169.1
50°	957.4	988.7	1044.5	1090.4	1100.3
52.5°	888.4	921.2	980.4	1029.7	1034.6
55°	816.2	852.4	914.7	962.4	972.3
57.5°	750.5	781.7	849.0	898.3	909.8
60°	678.3	712.7	784.9	831.0	845.6
62.5°	609.2	645.4	721.0	766.9	780.0
65°	537.0	578.1	651.9	706.2	719.2
67.5°	474.7	514.0	592.8	645.4	658.5
70°	402.2	446.8	530.5	584.7	597.7
72.5°	339.9	385.8	469.7	522.1	541.9
75°	272.6	325.1	409.0	464.8	477.8
77.5°	207.0	267.7	353.0	395.7	395.7
80°	147.8	211.9	290.7	310.4	313.6
82.5°	97.0	159.3	215.1	213.5	213.5
85°	55.8	103.5	128.0	124.8	124.8
87.5°	21.4	42.7	45.9	45.9	44.3
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)