

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: P843137

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843137  
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-S-UNV-B40  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

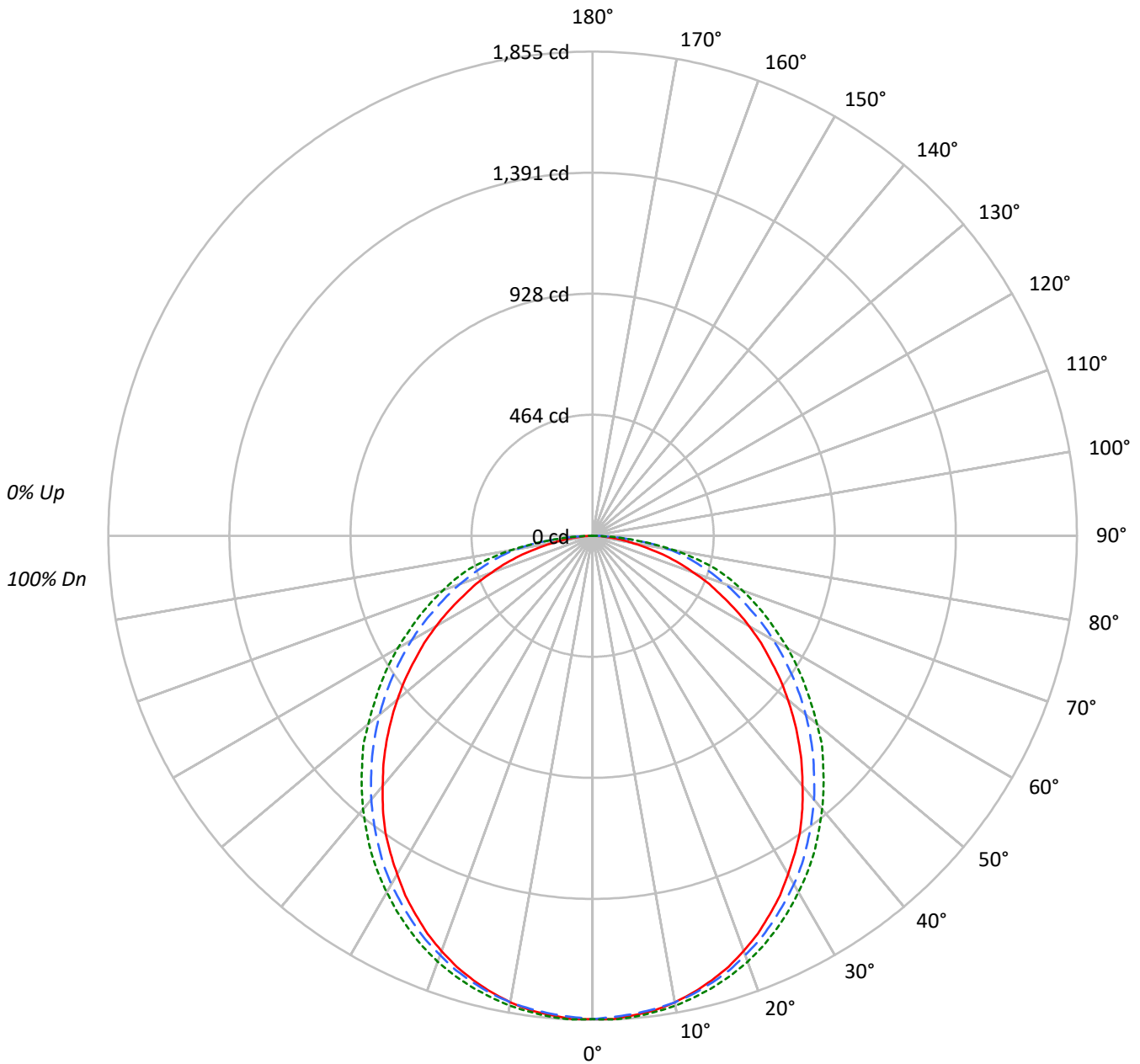
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5271.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 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 (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: P843137  
CATALOG NUMBER: 24CZ2-55HE-S-UNV-B40

### Luminous Intensity Polar Plot





TEST NUMBER: P843137

CATALOG NUMBER: 24CZ2-55HE-S-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	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°	2614	2614	2614
5°	2612	2604	2621
10°	2601	2601	2620
15°	2576	2588	2615
20°	2542	2567	2608
25°	2495	2542	2592
30°	2439	2513	2570
35°	2386	2472	2550
40°	2304	2431	2520
45°	2229	2383	2493
50°	2143	2338	2463
55°	2047	2295	2439
60°	1952	2259	2434
65°	1828	2220	2449
70°	1692	2232	2515
75°	1516	2274	2657
80°	1225	2408	2598
85°	921	2113	2061



TEST NUMBER: P843137

CATALOG NUMBER: 24CZ2-55HE-S-UNV-B40

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.3	3.3
10°-20°	500.9	9.5
20°-30°	753.0	14.3
30°-40°	896.9	17.0
40°-50°	918.0	17.4
50°-60°	826.4	15.7
60°-70°	649.0	12.3
70°-80°	421.2	8.0
80°-90°	130.3	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°	1429.2	27.1
0°-40°	2326.1	44.1
0°-60°	4070.5	77.2
0°-90°	5271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5271.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1843	1847	1838	1848	1850	175
15°	1763	1768	1771	1786	1790	497
25°	1602	1616	1632	1659	1664	738
35°	1385	1401	1435	1470	1480	864
45°	1117	1144	1194	1239	1249	861
55°	832	869	933	981	991	746
65°	548	589	665	720	733	545
75°	278	331	417	474	487	294
85°	57	106	130	127	127	69
90°	0	0	0	0	0	



TEST NUMBER: P843137

CATALOG NUMBER: 24CZ2-55HE-S-UNV-B40

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1851.8	1851.8	1851.8	1851.8	1851.8
2.5°	1853.4	1853.4	1845.0	1853.4	1855.1
5°	1843.4	1846.8	1838.3	1848.4	1850.0
7.5°	1833.3	1833.3	1828.2	1838.3	1840.1
10°	1814.9	1816.5	1814.9	1826.6	1828.2
12.5°	1791.5	1794.7	1796.6	1808.3	1809.9
15°	1763.1	1768.1	1771.3	1786.5	1789.9
17.5°	1731.2	1736.2	1744.5	1761.2	1764.7
20°	1692.7	1699.3	1709.4	1731.2	1736.2
22.5°	1650.9	1657.6	1674.3	1694.3	1702.7
25°	1602.3	1615.6	1632.3	1659.2	1664.2
27.5°	1553.7	1565.4	1587.2	1615.6	1622.5
30°	1496.8	1515.1	1542.0	1570.4	1577.1
32.5°	1441.5	1459.9	1491.7	1522.0	1530.3
35°	1384.6	1401.4	1434.9	1470.0	1480.0
37.5°	1319.3	1341.1	1378.0	1413.1	1423.2
40°	1250.7	1277.5	1319.3	1356.2	1367.9
42.5°	1185.3	1213.8	1255.7	1295.9	1309.2
45°	1116.7	1143.6	1193.8	1239.0	1249.1
47.5°	1046.3	1076.6	1130.1	1175.2	1192.0
50°	976.1	1008.0	1064.9	1111.7	1121.8
52.5°	905.7	939.2	999.5	1049.8	1054.8
55°	832.1	869.0	932.6	981.2	991.3
57.5°	765.1	797.0	865.6	915.8	927.5
60°	691.5	726.6	800.2	847.2	862.2
62.5°	621.1	658.0	735.1	781.9	795.2
65°	547.5	589.4	664.7	720.0	733.3
67.5°	483.9	524.1	604.4	658.0	671.3
70°	410.1	455.5	540.8	596.1	609.4
72.5°	346.6	393.4	478.9	532.3	552.5
75°	278.0	331.4	417.0	473.8	487.2
77.5°	211.0	272.9	359.9	403.4	403.4
80°	150.7	216.0	296.3	316.5	319.7
82.5°	98.8	162.4	219.3	217.7	217.7
85°	56.9	105.5	130.5	127.3	127.3
87.5°	21.8	43.6	46.8	46.8	45.2
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)