

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: P843136

Luminaire Tested: **24CZ2-55HE-S-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843136  
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-B35  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

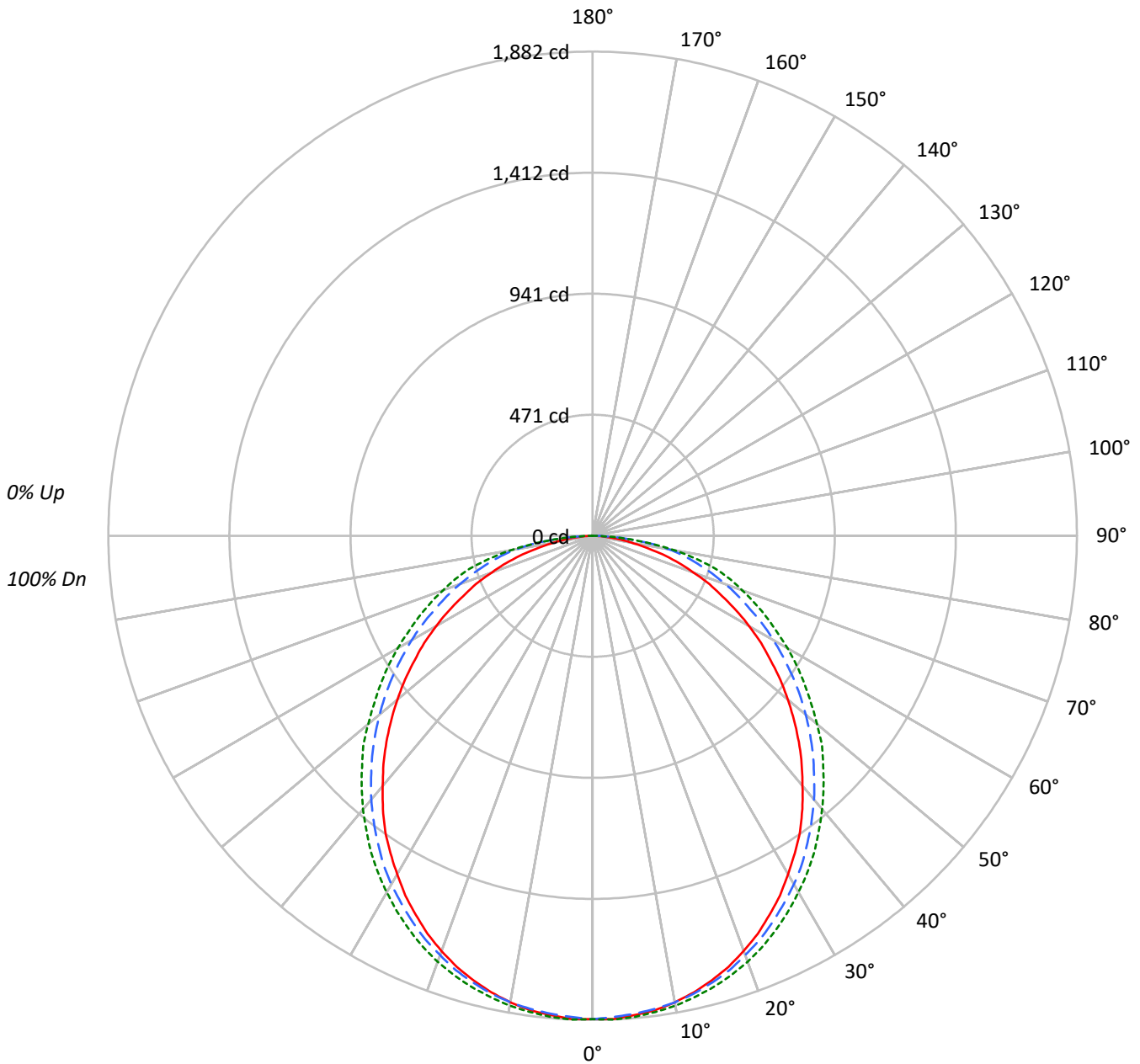
Lumens per Lamp: N/A  
Luminaire Lumens: 5348.0 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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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°	2652	2652	2652
5°	2650	2642	2659
10°	2639	2639	2658
15°	2614	2626	2653
20°	2579	2605	2646
25°	2532	2579	2629
30°	2475	2550	2608
35°	2421	2508	2587
40°	2338	2466	2557
45°	2262	2417	2529
50°	2175	2372	2499
55°	2077	2328	2475
60°	1980	2292	2469
65°	1855	2252	2485
70°	1717	2264	2551
75°	1538	2307	2695
80°	1243	2444	2637
85°	934	2144	2091



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.9	3.3
10°-20°	508.2	9.5
20°-30°	764.0	14.3
30°-40°	910.0	17.0
40°-50°	931.4	17.4
50°-60°	838.5	15.7
60°-70°	658.5	12.3
70°-80°	427.4	8.0
80°-90°	132.2	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°	1450.1	27.1
0°-40°	2360.1	44.1
0°-60°	4129.9	77.2
0°-90°	5348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5348.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1879	1879	1879	1879	1879	
5°	1870	1874	1865	1875	1877	178
15°	1789	1794	1797	1813	1816	504
25°	1626	1639	1656	1683	1688	749
35°	1405	1422	1456	1491	1502	876
45°	1133	1160	1211	1257	1267	874
55°	844	882	946	996	1006	757
65°	556	598	674	730	744	553
75°	282	336	423	481	494	298
85°	58	107	132	129	129	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1878.9	1878.9	1878.9	1878.9	1878.9
2.5°	1880.5	1880.5	1871.9	1880.5	1882.1
5°	1870.3	1873.8	1865.2	1875.4	1877.0
7.5°	1860.0	1860.0	1854.9	1865.2	1867.0
10°	1841.4	1843.1	1841.4	1853.3	1854.9
12.5°	1817.7	1821.0	1822.8	1834.7	1836.3
15°	1788.8	1793.9	1797.2	1812.6	1816.0
17.5°	1756.5	1761.6	1770.0	1787.0	1790.5
20°	1717.4	1724.1	1734.4	1756.5	1761.6
22.5°	1675.0	1681.8	1698.8	1719.0	1727.6
25°	1625.7	1639.2	1656.2	1683.4	1688.5
27.5°	1576.4	1588.2	1610.3	1639.2	1646.2
30°	1518.7	1537.3	1564.5	1593.4	1600.1
32.5°	1462.6	1481.2	1513.5	1544.2	1552.6
35°	1404.9	1421.8	1455.8	1491.4	1501.7
37.5°	1338.5	1360.6	1398.1	1433.7	1444.0
40°	1269.0	1296.2	1338.5	1376.0	1387.9
42.5°	1202.6	1231.5	1274.1	1314.8	1328.3
45°	1133.1	1160.3	1211.2	1257.1	1267.3
47.5°	1061.6	1092.3	1146.6	1192.4	1209.4
50°	990.4	1022.7	1080.5	1127.9	1138.2
52.5°	919.0	952.9	1014.1	1065.1	1070.2
55°	844.3	881.7	946.2	995.5	1005.8
57.5°	776.3	808.7	878.2	929.2	941.1
60°	701.6	737.2	811.9	859.6	874.8
62.5°	630.2	667.6	745.8	793.3	806.8
65°	555.5	598.0	674.4	730.5	744.0
67.5°	491.0	531.7	613.2	667.6	681.1
70°	416.1	462.1	548.7	604.8	618.3
72.5°	351.6	399.1	485.9	540.1	560.6
75°	282.0	336.3	423.1	480.8	494.3
77.5°	214.1	276.9	365.1	409.3	409.3
80°	152.9	219.2	300.7	321.1	324.4
82.5°	100.3	164.8	222.5	220.8	220.8
85°	57.7	107.0	132.4	129.1	129.1
87.5°	22.1	44.2	47.5	47.5	45.8
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)