

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: P732337

Luminaire Tested: **24CZ2-55HE-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732337  
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-B2750-W2D-3000K  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

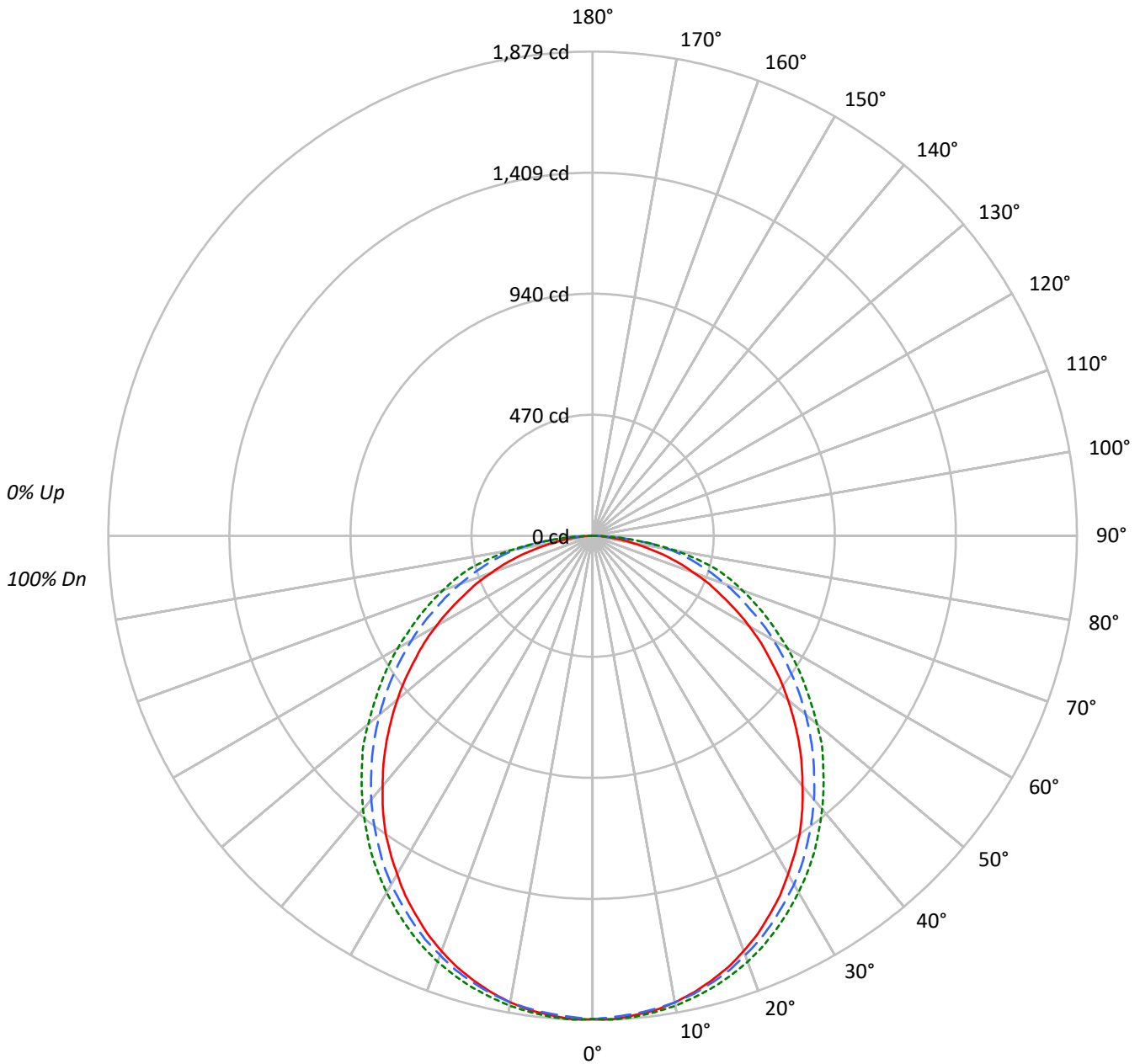
Lumens per Lamp: N/A  
Luminaire Lumens: 5340.0 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P732337

CATALOG NUMBER: 24CZ2-55HE-B2750-W2D-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732337

CATALOG NUMBER: 24CZ2-55HE-B2750-W2D-3000K

**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°	2648	2648	2648
5°	2646	2639	2655
10°	2635	2635	2654
15°	2610	2622	2649
20°	2575	2601	2642
25°	2528	2575	2626
30°	2471	2546	2604
35°	2417	2504	2583
40°	2334	2462	2553
45°	2258	2414	2526
50°	2171	2369	2495
55°	2074	2325	2471
60°	1978	2288	2466
65°	1852	2249	2481
70°	1715	2261	2548
75°	1536	2303	2691
80°	1241	2440	2633
85°	933	2141	2089



TEST NUMBER: P732337

CATALOG NUMBER: 24CZ2-55HE-B2750-W2D-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.6	3.3
10°-20°	507.5	9.5
20°-30°	762.8	14.3
30°-40°	908.7	17.0
40°-50°	930.0	17.4
50°-60°	837.3	15.7
60°-70°	657.5	12.3
70°-80°	426.7	8.0
80°-90°	132.0	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°	1447.9	27.1
0°-40°	2356.6	44.1
0°-60°	4123.8	77.2
0°-90°	5340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5340.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1876	1876	1876	1876	1876	
5°	1868	1871	1862	1873	1874	177
15°	1786	1791	1794	1810	1813	504
25°	1623	1637	1654	1681	1686	748
35°	1403	1420	1454	1489	1499	875
45°	1131	1158	1209	1255	1265	872
55°	843	880	945	994	1004	756
65°	555	597	673	729	743	552
75°	282	336	422	480	494	298
85°	58	107	132	129	129	70
90°	0	0	0	0	0	



TEST NUMBER: P732337

CATALOG NUMBER: 24CZ2-55HE-B2750-W2D-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1876.1	1876.1	1876.1	1876.1	1876.1
2.5°	1877.7	1877.7	1869.1	1877.7	1879.3
5°	1867.5	1871.0	1862.4	1872.6	1874.2
7.5°	1857.3	1857.3	1852.2	1862.4	1864.2
10°	1838.7	1840.3	1838.7	1850.5	1852.2
12.5°	1815.0	1818.2	1820.1	1831.9	1833.6
15°	1786.1	1791.3	1794.5	1809.9	1813.3
17.5°	1753.9	1759.0	1767.3	1784.3	1787.8
20°	1714.8	1721.6	1731.8	1753.9	1759.0
22.5°	1672.5	1679.3	1696.2	1716.5	1725.0
25°	1623.3	1636.8	1653.7	1680.9	1686.0
27.5°	1574.0	1585.9	1607.9	1636.8	1643.7
30°	1516.4	1535.0	1562.2	1591.0	1597.7
32.5°	1460.4	1479.0	1511.3	1541.9	1550.3
35°	1402.8	1419.7	1453.6	1489.2	1499.4
37.5°	1336.5	1358.6	1396.0	1431.6	1441.8
40°	1267.1	1294.2	1336.5	1373.9	1385.8
42.5°	1200.8	1229.7	1272.2	1312.8	1326.3
45°	1131.4	1158.5	1209.4	1255.2	1265.4
47.5°	1060.0	1090.7	1144.8	1190.6	1207.6
50°	988.9	1021.2	1078.8	1126.3	1136.5
52.5°	917.6	951.5	1012.6	1063.5	1068.6
55°	843.0	880.4	944.8	994.0	1004.2
57.5°	775.2	807.4	876.9	927.8	939.7
60°	700.6	736.1	810.7	858.3	873.5
62.5°	629.2	666.6	744.7	792.1	805.6
65°	554.6	597.2	673.4	729.4	742.9
67.5°	490.3	530.9	612.3	666.6	680.1
70°	415.5	461.5	547.9	603.9	617.4
72.5°	351.1	398.5	485.2	539.3	559.8
75°	281.6	335.8	422.4	480.1	493.5
77.5°	213.8	276.5	364.6	408.7	408.7
80°	152.7	218.9	300.2	320.6	323.9
82.5°	100.1	164.5	222.1	220.5	220.5
85°	57.6	106.9	132.2	129.0	129.0
87.5°	22.1	44.1	47.4	47.4	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)