

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: P732356

Luminaire Tested: **24CZ2-55HE-SQR-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-55HE-SQR-B2750-W2D-2700K  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

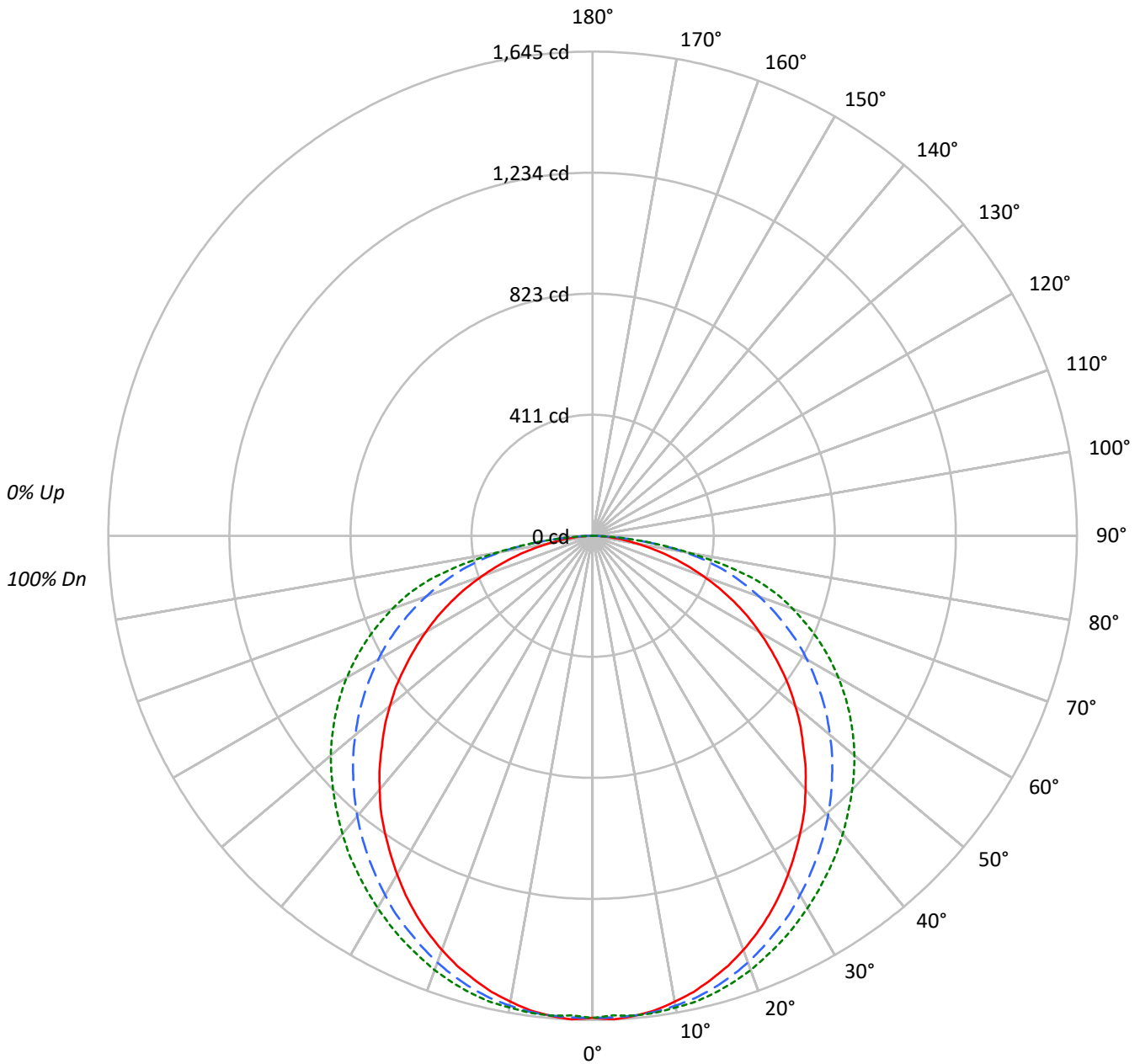
Lumens per Lamp: N/A  
Luminaire Lumens: 5124.0 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2311	2311	2311
5°	2320	2318	2318
10°	2304	2323	2333
15°	2279	2324	2349
20°	2249	2318	2358
25°	2211	2306	2366
30°	2165	2297	2380
35°	2119	2291	2402
40°	2073	2291	2435
45°	2019	2296	2482
50°	1973	2311	2549
55°	1915	2336	2627
60°	1849	2374	2722
65°	1768	2418	2837
70°	1641	2479	2982
75°	1486	2565	3119
80°	1251	2572	2680
85°	959	1945	1945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.5	3.0
10°-20°	447.3	8.7
20°-30°	679.4	13.3
30°-40°	826.4	16.1
40°-50°	879.9	17.2
50°-60°	838.1	16.4
60°-70°	700.8	13.7
70°-80°	467.3	9.1
80°-90°	129.3	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°	1282.2	25.0
0°-40°	2108.7	41.2
0°-60°	3826.6	74.7
0°-90°	5124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5124.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1638	1628	1636	1636	1636	155
15°	1560	1564	1590	1602	1607	440
25°	1420	1438	1481	1506	1520	654
35°	1230	1266	1330	1374	1394	770
45°	1012	1066	1150	1215	1244	782
55°	778	846	949	1032	1068	696
65°	530	607	724	814	850	523
75°	272	359	470	550	572	289
85°	59	110	120	118	120	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1637.8	1637.8	1637.8	1637.8	1637.8
2.5°	1644.6	1632.7	1637.8	1637.8	1631.2
5°	1637.8	1627.7	1636.3	1636.3	1636.3
7.5°	1626.1	1617.6	1631.2	1634.5	1634.5
10°	1607.4	1604.1	1621.1	1626.1	1627.7
12.5°	1587.2	1585.5	1609.2	1615.8	1621.1
15°	1559.9	1563.5	1590.5	1602.4	1607.4
17.5°	1531.4	1538.0	1568.5	1585.5	1590.5
20°	1497.5	1507.6	1543.2	1559.9	1570.3
22.5°	1460.3	1475.5	1512.7	1532.9	1544.8
25°	1419.7	1438.1	1480.6	1505.9	1519.5
27.5°	1375.7	1399.4	1448.5	1477.0	1490.7
30°	1328.2	1355.2	1409.5	1443.4	1460.3
32.5°	1279.1	1311.2	1370.6	1407.8	1428.0
35°	1230.1	1265.7	1329.9	1373.9	1394.1
37.5°	1181.1	1216.5	1287.7	1335.0	1360.5
40°	1125.2	1167.4	1243.7	1296.1	1321.6
42.5°	1071.1	1116.6	1198.0	1255.4	1282.7
45°	1011.7	1066.1	1150.5	1214.9	1243.7
47.5°	957.6	1011.7	1103.2	1170.9	1203.1
50°	898.5	955.9	1052.4	1127.0	1160.8
52.5°	840.9	900.3	1001.6	1081.2	1115.1
55°	778.4	845.9	949.3	1032.2	1067.6
57.5°	715.8	788.5	895.0	981.4	1017.0
60°	654.9	729.2	840.9	927.3	964.5
62.5°	593.9	668.3	785.0	873.0	908.6
65°	529.5	607.4	724.1	813.8	849.5
67.5°	465.3	546.4	663.2	752.9	786.8
70°	397.6	484.0	600.8	688.7	722.6
72.5°	335.1	421.3	536.3	622.7	654.9
75°	272.5	358.7	470.4	550.0	572.0
77.5°	211.5	297.7	397.6	450.1	455.2
80°	153.9	235.3	316.4	331.6	329.8
82.5°	103.1	175.9	218.4	219.9	225.0
85°	59.2	109.9	120.1	118.5	120.1
87.5°	23.7	38.9	33.9	25.3	25.3
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)