

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: P732358

Luminaire Tested: **24CZ2-55HE-SQR-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732358  
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-3500K  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

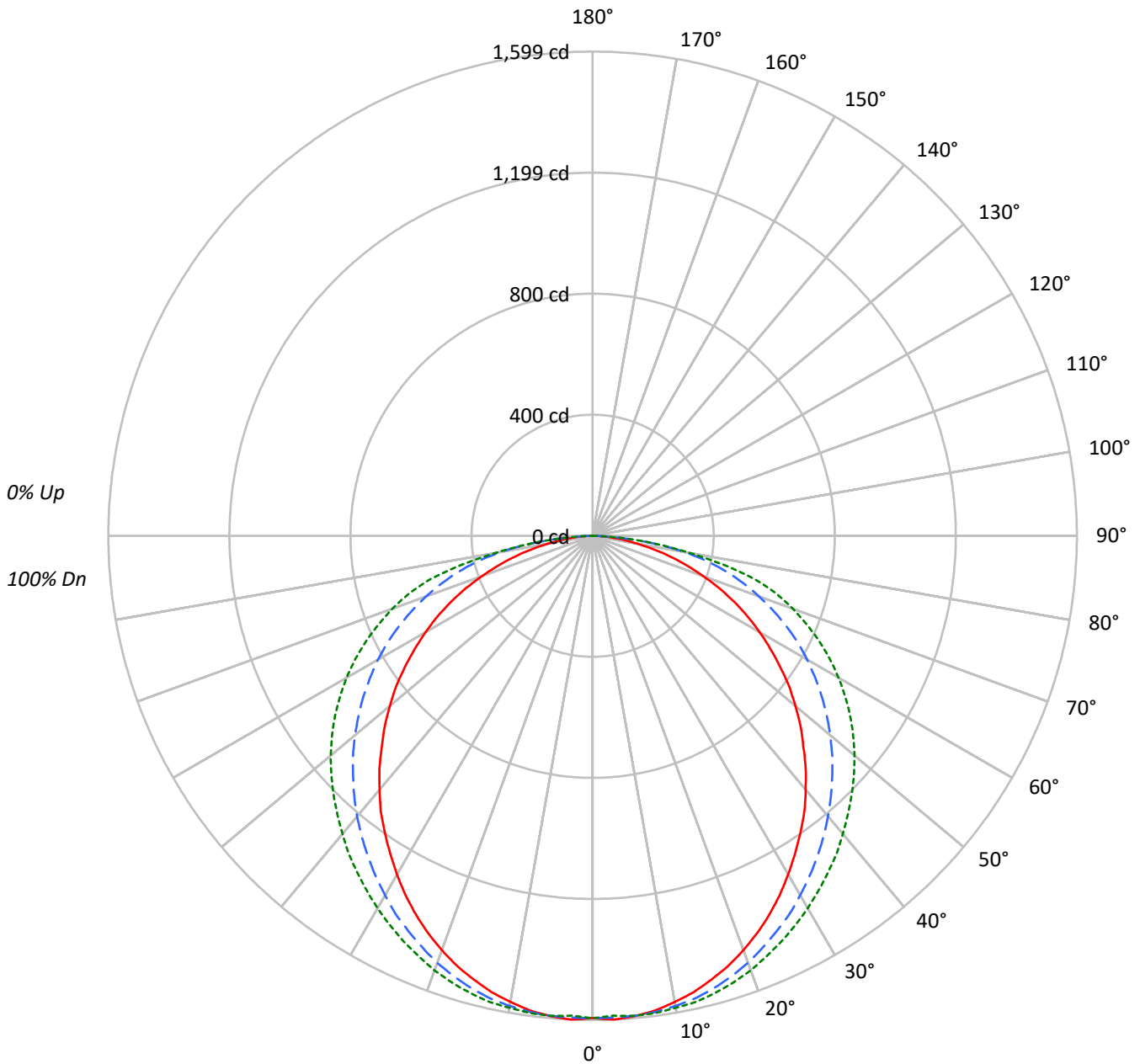
Lumens per Lamp: N/A  
Luminaire Lumens: 4983.0 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	2248	2248	2248
5°	2256	2254	2254
10°	2240	2259	2268
15°	2217	2260	2284
20°	2187	2254	2294
25°	2150	2242	2301
30°	2105	2234	2314
35°	2061	2228	2336
40°	2016	2228	2368
45°	1964	2233	2414
50°	1919	2247	2479
55°	1863	2272	2555
60°	1797	2308	2647
65°	1720	2352	2759
70°	1595	2411	2900
75°	1445	2494	3033
80°	1217	2501	2607
85°	931	1891	1891



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.2	3.0
10°-20°	435.0	8.7
20°-30°	660.7	13.3
30°-40°	803.7	16.1
40°-50°	855.7	17.2
50°-60°	815.0	16.4
60°-70°	681.5	13.7
70°-80°	454.4	9.1
80°-90°	125.7	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°	1246.9	25.0
0°-40°	2050.6	41.2
0°-60°	3721.3	74.7
0°-90°	4983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4983.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1593	1583	1591	1591	1591	151
15°	1517	1520	1547	1558	1563	428
25°	1381	1398	1440	1464	1478	636
35°	1196	1231	1293	1336	1356	749
45°	984	1037	1119	1182	1210	761
55°	757	823	923	1004	1038	677
65°	515	591	704	791	826	509
75°	265	349	457	535	556	281
85°	58	107	117	115	117	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1592.7	1592.7	1592.7	1592.7	1592.7
2.5°	1599.4	1587.8	1592.7	1592.7	1586.3
5°	1592.7	1582.9	1591.2	1591.2	1591.2
7.5°	1581.4	1573.0	1586.3	1589.5	1589.5
10°	1563.2	1560.0	1576.5	1581.4	1582.9
12.5°	1543.5	1541.8	1564.9	1571.3	1576.5
15°	1517.0	1520.4	1546.7	1558.3	1563.2
17.5°	1489.2	1495.6	1525.4	1541.8	1546.7
20°	1456.3	1466.1	1500.8	1517.0	1527.1
22.5°	1420.1	1434.9	1471.0	1490.7	1502.3
25°	1380.6	1398.5	1439.8	1464.4	1477.7
27.5°	1337.8	1360.9	1408.6	1436.4	1449.7
30°	1291.6	1317.9	1370.8	1403.7	1420.1
32.5°	1243.9	1275.2	1332.9	1369.0	1388.7
35°	1196.3	1230.9	1293.3	1336.1	1355.8
37.5°	1148.6	1183.0	1252.3	1298.3	1323.1
40°	1094.2	1135.3	1209.5	1260.4	1285.2
42.5°	1041.6	1085.9	1165.0	1220.8	1247.4
45°	983.9	1036.7	1118.8	1181.5	1209.5
47.5°	931.3	983.9	1072.9	1138.7	1169.9
50°	873.8	929.6	1023.5	1096.0	1128.9
52.5°	817.7	875.5	974.1	1051.5	1084.4
55°	757.0	822.7	923.2	1003.8	1038.2
57.5°	696.1	766.9	870.4	954.4	989.0
60°	636.8	709.1	817.7	901.8	937.9
62.5°	577.6	649.9	763.4	849.0	883.6
65°	514.9	590.6	704.2	791.4	826.1
67.5°	452.5	531.4	645.0	732.2	765.1
70°	386.6	470.7	584.2	669.8	702.7
72.5°	325.9	409.7	521.6	605.6	636.8
75°	265.0	348.8	457.4	534.8	556.2
77.5°	205.7	289.5	386.6	437.7	442.7
80°	149.7	228.8	307.7	322.5	320.8
82.5°	100.3	171.1	212.3	213.8	218.8
85°	57.5	106.9	116.8	115.3	116.8
87.5°	23.1	37.9	32.9	24.6	24.6
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)