

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: P732408

Luminaire Tested: **24CZ2-65HE-SQR-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732408  
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: 24CZ2-65HE-SQR-B2750-W2D-3500K  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

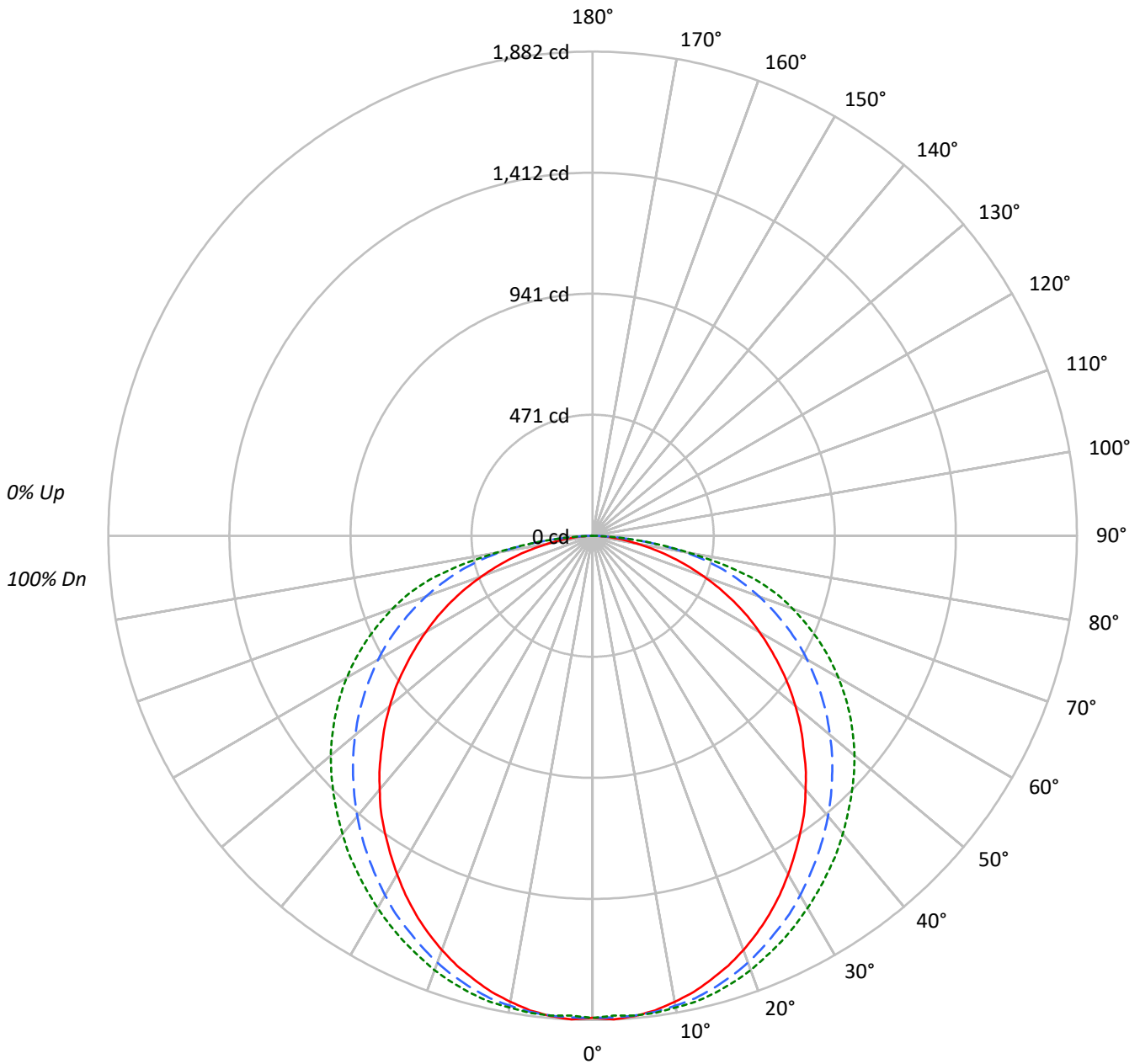
Lumens per Lamp: N/A  
Luminaire Lumens: 5863.0 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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°	2645	2645	2645
5°	2655	2652	2652
10°	2636	2658	2669
15°	2608	2659	2687
20°	2574	2652	2699
25°	2530	2638	2707
30°	2477	2628	2723
35°	2425	2622	2748
40°	2372	2622	2786
45°	2311	2627	2840
50°	2257	2644	2916
55°	2192	2673	3006
60°	2115	2716	3115
65°	2023	2767	3246
70°	1877	2837	3412
75°	1700	2935	3568
80°	1431	2943	3067
85°	1096	2225	2225



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.9	3.0
10°-20°	511.8	8.7
20°-30°	777.4	13.3
30°-40°	945.6	16.1
40°-50°	1006.8	17.2
50°-60°	958.9	16.4
60°-70°	801.9	13.7
70°-80°	534.7	9.1
80°-90°	147.9	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°	1467.2	25.0
0°-40°	2412.8	41.2
0°-60°	4378.5	74.7
0°-90°	5863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5863.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1874	1874	1874	1874	1874	
5°	1874	1862	1872	1872	1872	178
15°	1785	1789	1820	1834	1839	503
25°	1624	1646	1694	1723	1739	748
35°	1408	1448	1522	1572	1595	881
45°	1158	1220	1316	1390	1423	895
55°	891	968	1086	1181	1222	796
65°	606	695	829	931	972	599
75°	312	410	538	629	654	330
85°	68	126	137	136	137	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1874.0	1874.0	1874.0	1874.0	1874.0
2.5°	1881.8	1868.2	1874.0	1874.0	1866.4
5°	1874.0	1862.4	1872.2	1872.2	1872.2
7.5°	1860.7	1850.8	1866.4	1870.2	1870.2
10°	1839.3	1835.5	1854.9	1860.7	1862.4
12.5°	1816.1	1814.1	1841.3	1848.8	1854.9
15°	1784.9	1789.0	1819.9	1833.5	1839.3
17.5°	1752.2	1759.8	1794.7	1814.1	1819.9
20°	1713.5	1725.0	1765.8	1784.9	1796.8
22.5°	1670.9	1688.3	1730.8	1754.0	1767.6
25°	1624.4	1645.5	1694.1	1723.0	1738.6
27.5°	1574.1	1601.3	1657.4	1690.1	1705.7
30°	1519.7	1550.7	1612.8	1651.6	1670.9
32.5°	1463.6	1500.4	1568.3	1610.8	1634.0
35°	1407.5	1448.3	1521.7	1572.1	1595.2
37.5°	1351.4	1391.9	1473.4	1527.5	1556.7
40°	1287.5	1335.8	1423.1	1483.0	1512.2
42.5°	1225.6	1277.7	1370.8	1436.4	1467.6
45°	1157.7	1219.8	1316.4	1390.1	1423.1
47.5°	1095.8	1157.7	1262.3	1339.8	1376.6
50°	1028.1	1093.8	1204.2	1289.5	1328.3
52.5°	962.2	1030.1	1146.1	1237.2	1275.9
55°	890.7	967.9	1086.2	1181.1	1221.6
57.5°	819.0	902.3	1024.1	1122.9	1163.7
60°	749.3	834.3	962.2	1061.0	1103.6
62.5°	679.6	764.6	898.3	998.9	1039.7
65°	605.9	694.9	828.6	931.2	972.0
67.5°	532.4	625.3	758.9	861.5	900.3
70°	454.9	553.8	687.4	788.0	826.8
72.5°	383.5	482.1	613.7	712.6	749.3
75°	311.7	410.4	538.2	629.3	654.4
77.5°	242.0	340.7	454.9	515.0	520.8
80°	176.1	269.2	362.1	379.4	377.4
82.5°	118.0	201.3	249.8	251.6	257.4
85°	67.7	125.8	137.4	135.6	137.4
87.5°	27.2	44.5	38.7	28.9	28.9
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)