

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: P732410

Luminaire Tested: **24CZ2-65HE-SQR-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732410  
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-5000K  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

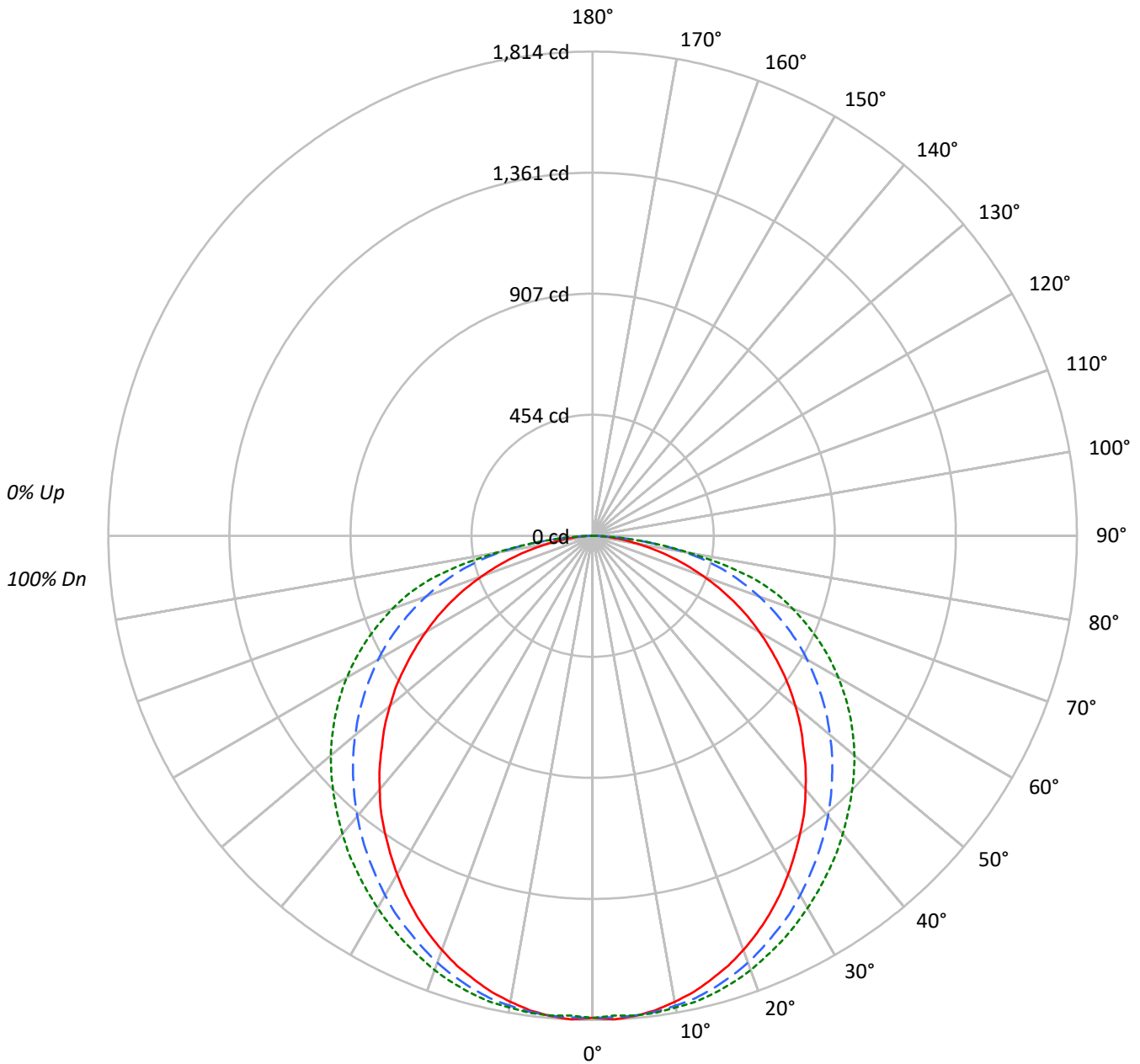
Lumens per Lamp: N/A  
Luminaire Lumens: 5651.0 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	2549	2549	2549
5°	2559	2556	2556
10°	2541	2562	2573
15°	2514	2563	2590
20°	2480	2556	2601
25°	2438	2543	2610
30°	2387	2533	2625
35°	2337	2527	2649
40°	2286	2527	2685
45°	2227	2532	2738
50°	2176	2548	2811
55°	2112	2576	2897
60°	2039	2618	3002
65°	1950	2667	3128
70°	1809	2734	3288
75°	1639	2828	3440
80°	1380	2837	2957
85°	1056	2144	2144



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.5	3.0
10°-20°	493.3	8.7
20°-30°	749.3	13.3
30°-40°	911.4	16.1
40°-50°	970.4	17.2
50°-60°	924.3	16.4
60°-70°	772.9	13.7
70°-80°	515.3	9.1
80°-90°	142.6	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°	1414.1	25.0
0°-40°	2325.6	41.2
0°-60°	4220.2	74.7
0°-90°	5651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5651.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1806	1795	1804	1804	1804	171
15°	1720	1724	1754	1767	1773	485
25°	1566	1586	1633	1661	1676	721
35°	1357	1396	1467	1515	1538	849
45°	1116	1176	1269	1340	1372	863
55°	858	933	1047	1138	1177	767
65°	584	670	799	898	937	577
75°	300	396	519	606	631	318
85°	65	121	132	131	132	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1806.2	1806.2	1806.2	1806.2	1806.2
2.5°	1813.8	1800.7	1806.2	1806.2	1799.0
5°	1806.2	1795.1	1804.5	1804.5	1804.5
7.5°	1793.4	1783.9	1799.0	1802.6	1802.6
10°	1772.8	1769.1	1787.8	1793.4	1795.1
12.5°	1750.5	1748.5	1774.7	1782.0	1787.8
15°	1720.4	1724.3	1754.1	1767.2	1772.8
17.5°	1688.9	1696.1	1729.8	1748.5	1754.1
20°	1651.5	1662.7	1702.0	1720.4	1731.8
22.5°	1610.5	1627.3	1668.2	1690.6	1703.7
25°	1565.7	1586.0	1632.8	1660.7	1675.8
27.5°	1517.2	1543.4	1597.4	1629.0	1644.0
30°	1464.8	1494.6	1554.5	1591.9	1610.5
32.5°	1410.7	1446.1	1511.6	1552.6	1574.9
35°	1356.6	1395.9	1466.7	1515.2	1537.5
37.5°	1302.5	1341.6	1420.2	1472.3	1500.4
40°	1240.9	1287.5	1371.7	1429.4	1457.5
42.5°	1181.3	1231.5	1321.2	1384.5	1414.6
45°	1115.8	1175.7	1268.8	1339.9	1371.7
47.5°	1056.1	1115.8	1216.7	1291.4	1326.8
50°	990.9	1054.2	1160.7	1242.9	1280.2
52.5°	927.4	992.8	1104.6	1192.4	1229.8
55°	858.5	932.9	1046.9	1138.4	1177.4
57.5°	789.4	869.7	987.0	1082.3	1121.6
60°	722.2	804.2	927.4	1022.7	1063.7
62.5°	655.0	737.0	865.8	962.8	1002.1
65°	584.0	669.8	798.6	897.5	936.8
67.5°	513.2	602.6	731.4	830.4	867.7
70°	438.5	533.8	662.5	759.6	796.9
72.5°	369.6	464.7	591.5	686.8	722.2
75°	300.5	395.5	518.7	606.5	630.8
77.5°	233.3	328.4	438.5	496.4	502.0
80°	169.8	259.5	349.0	365.7	363.8
82.5°	113.7	194.0	240.8	242.5	248.1
85°	65.2	121.3	132.4	130.7	132.4
87.5°	26.2	42.9	37.3	27.9	27.9
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)