

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: P880996

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

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P880996  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474669)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-65VHE-SQR-B2750-W2D-5000K  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

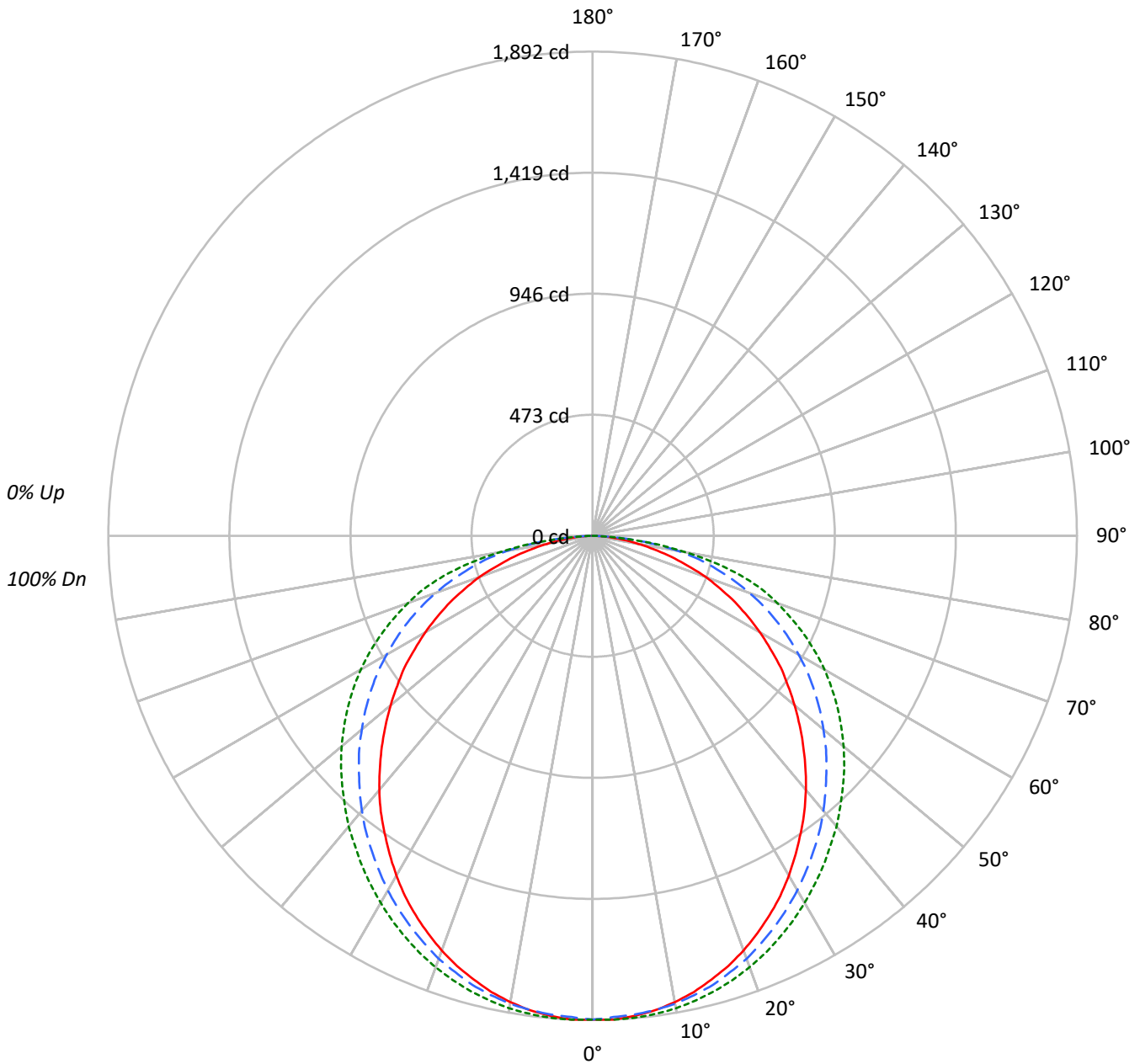
Lumens per Lamp: N/A  
Luminaire Lumens: 5756.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 51  
Input Voltage (V): NR  
Input Current (Ain): 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				20				20	
RC	80				70				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				100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82				82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68				68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56				56
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36				36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31				31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28				28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25				25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23				23

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

	0°	45°	90°
0°	2668	2668	2668
5°	2668	2660	2679
10°	2652	2661	2687
15°	2623	2655	2691
20°	2590	2642	2694
25°	2548	2623	2695
30°	2498	2608	2699
35°	2442	2592	2709
40°	2389	2584	2731
45°	2324	2577	2760
50°	2261	2584	2810
55°	2209	2602	2873
60°	2134	2622	2954
65°	2048	2654	3043
70°	1943	2690	3165
75°	1740	2728	3269
80°	1465	2736	2967
85°	1087	2068	1950



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.2	3.1
10°-20°	513.5	8.9
20°-30°	777.3	13.5
30°-40°	940.3	16.3
40°-50°	992.6	17.2
50°-60°	936.0	16.3
60°-70°	771.7	13.4
70°-80°	506.2	8.8
80°-90°	139.2	2.4
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°	1470.0	25.5
0°-40°	2410.3	41.9
0°-60°	4338.9	75.4
0°-90°	5756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5756.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1891	1891	1891	1891	1891	
5°	1883	1883	1878	1891	1891	179
15°	1795	1805	1817	1838	1842	506
25°	1636	1656	1685	1720	1731	753
35°	1417	1454	1504	1556	1572	887
45°	1164	1217	1291	1360	1383	898
55°	898	961	1058	1137	1168	800
65°	613	687	795	879	911	606
75°	319	401	500	579	600	337
85°	67	116	128	124	120	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1890.7	1890.7	1890.7	1890.7	1890.7
2.5°	1892.4	1890.7	1882.5	1893.4	1892.4
5°	1883.2	1883.2	1877.9	1890.7	1890.7
7.5°	1870.4	1871.3	1869.4	1884.2	1884.2
10°	1850.2	1853.9	1856.6	1873.3	1875.0
12.5°	1826.3	1832.8	1838.2	1858.5	1860.4
15°	1795.0	1805.2	1817.1	1838.2	1842.0
17.5°	1762.8	1774.9	1787.7	1815.3	1819.9
20°	1724.2	1738.0	1759.1	1786.8	1794.0
22.5°	1681.1	1700.3	1722.3	1755.5	1764.7
25°	1636.0	1656.1	1684.7	1719.6	1730.6
27.5°	1587.3	1611.1	1643.3	1683.8	1695.7
30°	1533.0	1560.4	1600.1	1643.3	1656.1
32.5°	1475.9	1508.1	1552.2	1600.1	1614.7
35°	1417.2	1453.8	1504.4	1556.0	1572.5
37.5°	1359.1	1395.9	1455.7	1510.0	1525.5
40°	1296.5	1337.0	1402.4	1460.3	1482.4
42.5°	1230.4	1278.3	1347.2	1411.6	1432.7
45°	1164.2	1216.6	1291.2	1360.0	1383.0
47.5°	1097.1	1155.0	1236.9	1306.7	1333.4
50°	1029.9	1091.5	1177.0	1252.4	1280.0
52.5°	961.8	1026.3	1119.1	1199.1	1224.0
55°	897.6	960.9	1057.6	1136.6	1167.8
57.5°	823.0	894.7	996.8	1076.9	1107.2
60°	755.9	825.9	928.9	1013.4	1046.4
62.5°	683.2	754.9	863.5	948.0	980.3
65°	613.4	687.0	794.6	879.2	911.2
67.5°	538.0	615.3	725.6	807.5	838.7
70°	470.9	543.5	651.9	735.7	767.0
72.5°	389.0	471.8	575.6	658.4	692.4
75°	319.1	400.9	500.2	579.4	599.5
77.5°	245.5	327.4	425.8	477.2	491.0
80°	180.3	257.4	336.6	364.2	365.0
82.5°	121.4	189.5	234.6	248.4	246.5
85°	67.1	115.8	127.7	124.1	120.4
87.5°	27.6	38.6	31.3	22.1	17.5
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)