

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: P881266

Luminaire Tested: **24CZ2-65VHE-SQR-UNV-B35**

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: P881266  
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-UNV-B35  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

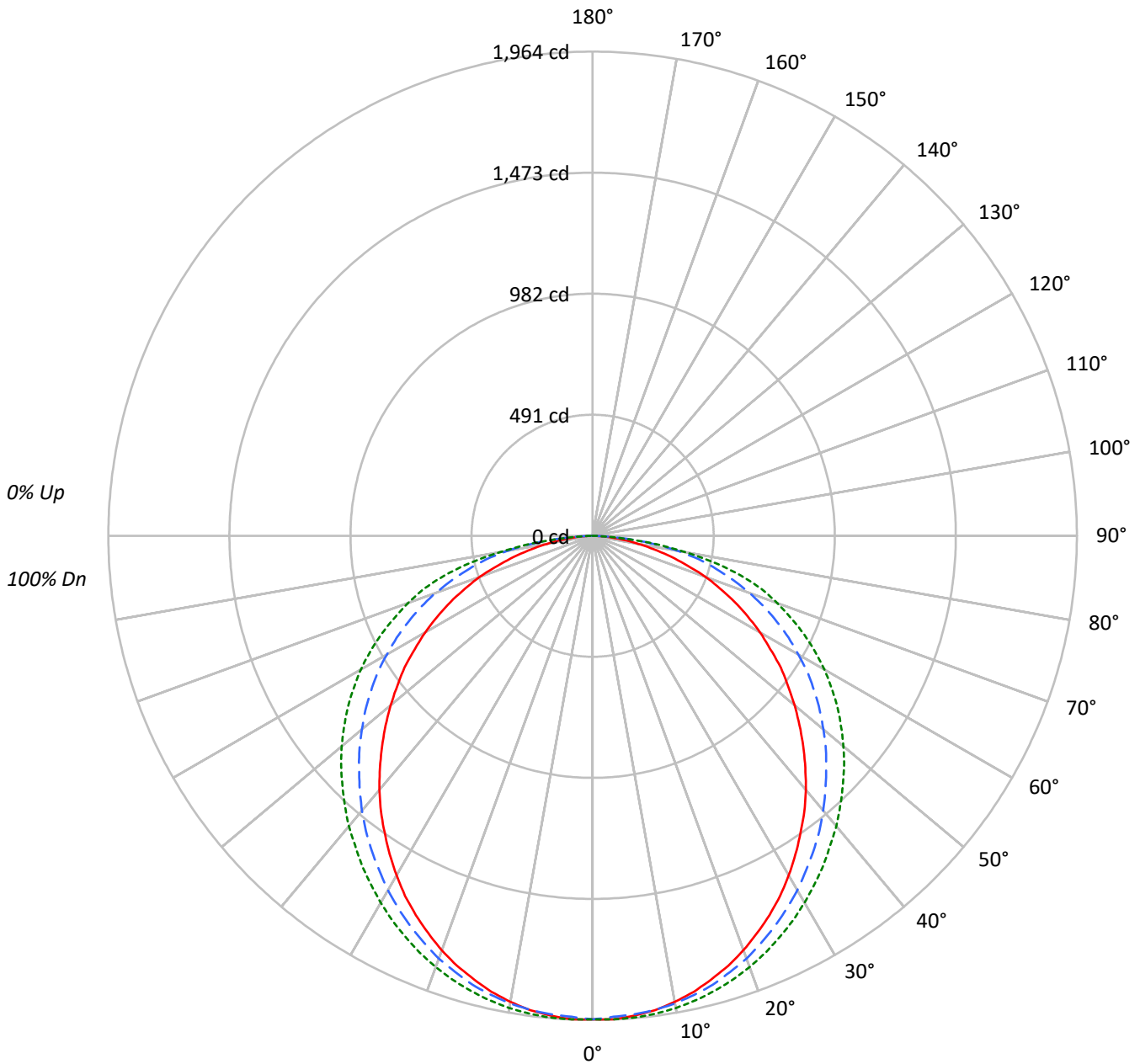
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5972.0 lumens  
Efficiency: N/A  
Efficacy: 117.1 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									
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	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

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

	0°	45°	90°
0°	2769	2769	2769
5°	2768	2760	2779
10°	2751	2760	2788
15°	2721	2755	2792
20°	2687	2741	2796
25°	2643	2722	2796
30°	2592	2706	2800
35°	2533	2689	2811
40°	2478	2681	2834
45°	2411	2674	2864
50°	2346	2681	2916
55°	2292	2700	2982
60°	2214	2720	3065
65°	2125	2753	3157
70°	2016	2791	3284
75°	1805	2830	3392
80°	1521	2838	3078
85°	1127	2146	2024



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.9	3.1
10°-20°	532.8	8.9
20°-30°	806.5	13.5
30°-40°	975.6	16.3
40°-50°	1029.8	17.2
50°-60°	971.1	16.3
60°-70°	800.7	13.4
70°-80°	525.2	8.8
80°-90°	144.4	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°	1525.1	25.5
0°-40°	2500.8	41.9
0°-60°	4501.7	75.4
0°-90°	5972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5972.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1954	1954	1948	1962	1962	185
15°	1862	1873	1885	1907	1911	525
25°	1697	1718	1748	1784	1796	782
35°	1470	1508	1561	1614	1632	920
45°	1208	1262	1340	1411	1435	932
55°	931	997	1097	1179	1212	830
65°	636	713	824	912	945	628
75°	331	416	519	601	622	350
85°	70	120	132	129	125	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1961.7	1961.7	1961.7	1961.7	1961.7
2.5°	1963.5	1961.7	1953.1	1964.4	1963.5
5°	1953.9	1953.9	1948.3	1961.7	1961.7
7.5°	1940.6	1941.6	1939.6	1954.9	1954.9
10°	1919.7	1923.5	1926.2	1943.6	1945.3
12.5°	1894.8	1901.6	1907.1	1928.2	1930.2
15°	1862.4	1872.9	1885.2	1907.1	1911.1
17.5°	1828.9	1841.5	1854.8	1883.5	1888.2
20°	1788.9	1803.3	1825.2	1853.8	1861.4
22.5°	1744.2	1764.1	1786.9	1821.4	1830.9
25°	1697.4	1718.3	1747.9	1784.2	1795.5
27.5°	1646.9	1671.5	1705.0	1746.9	1759.3
30°	1590.5	1619.0	1660.2	1705.0	1718.3
32.5°	1531.2	1564.7	1610.4	1660.2	1675.3
35°	1470.3	1508.4	1560.9	1614.4	1631.5
37.5°	1410.1	1448.3	1510.3	1566.7	1582.8
40°	1345.2	1387.2	1455.0	1515.1	1538.0
42.5°	1276.5	1326.3	1397.7	1464.6	1486.5
45°	1207.9	1262.2	1339.6	1411.0	1434.9
47.5°	1138.2	1198.3	1283.3	1355.7	1383.4
50°	1068.6	1132.5	1221.2	1299.4	1328.1
52.5°	997.9	1064.8	1161.1	1244.1	1270.0
55°	931.3	996.9	1097.2	1179.2	1211.7
57.5°	853.9	928.3	1034.2	1117.3	1148.8
60°	784.2	856.9	963.7	1051.5	1085.7
62.5°	708.8	783.2	895.9	983.6	1017.0
65°	636.4	712.8	824.4	912.2	945.4
67.5°	558.2	638.4	752.8	837.8	870.2
70°	488.5	563.9	676.4	763.3	795.8
72.5°	403.6	489.5	597.2	683.1	718.4
75°	331.1	415.9	519.0	601.2	622.0
77.5°	254.7	339.7	441.8	495.1	509.4
80°	187.1	267.0	349.2	377.9	378.7
82.5°	126.0	196.6	243.4	257.7	255.7
85°	69.6	120.2	132.5	128.7	125.0
87.5°	28.7	40.0	32.4	22.9	18.1
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)