

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: P880993

Luminaire Tested: **24CZ2-65VHE-SQR-B2750-W2D-3000K**

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: P880993  
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-3000K  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

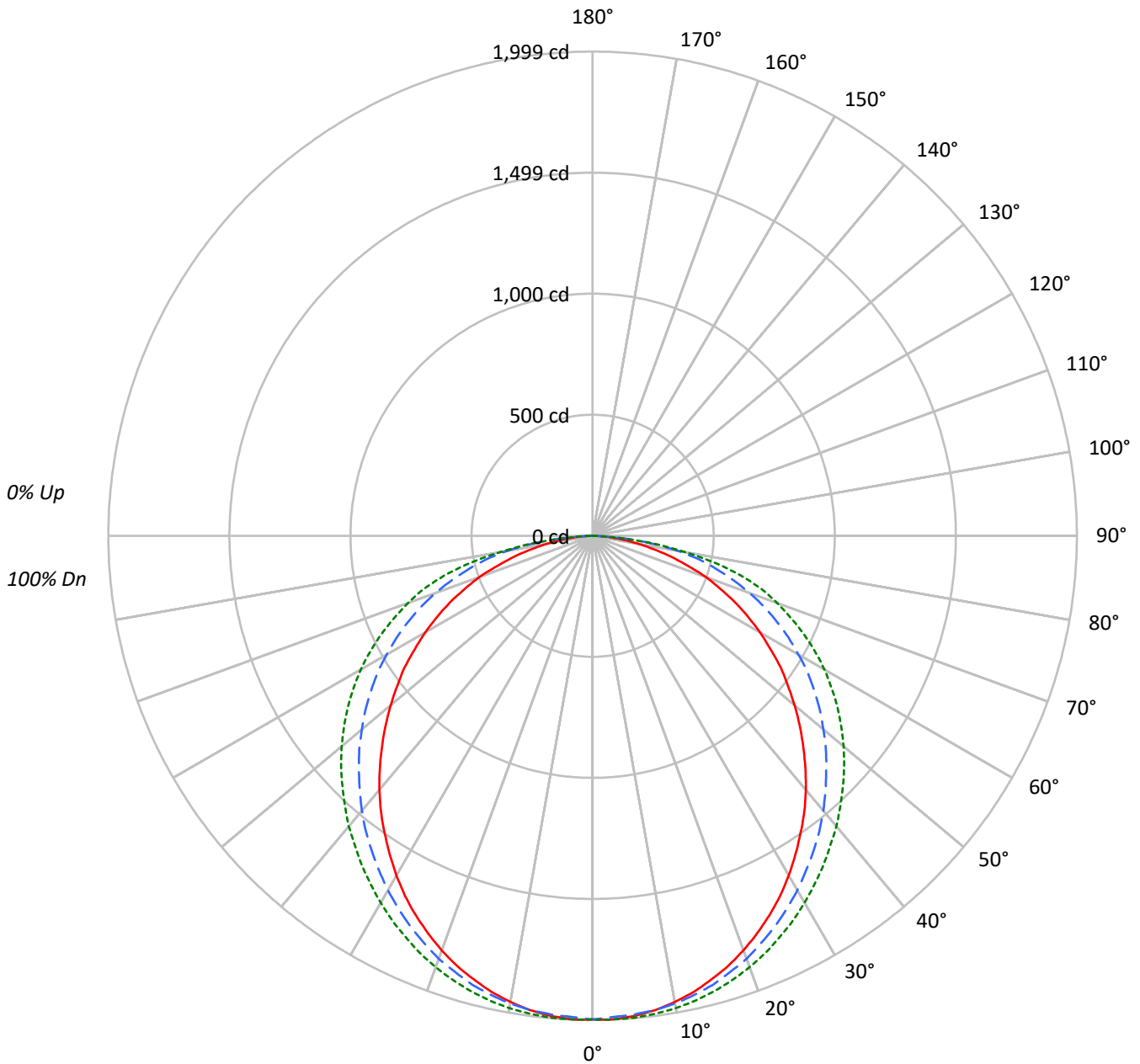
Lumens per Lamp: N/A  
Luminaire Lumens: 6080.0 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	2819	2819	2819
5°	2818	2810	2829
10°	2801	2810	2838
15°	2770	2804	2843
20°	2735	2791	2846
25°	2691	2771	2847
30°	2639	2754	2851
35°	2579	2738	2862
40°	2523	2729	2885
45°	2454	2722	2916
50°	2389	2730	2969
55°	2333	2749	3035
60°	2254	2769	3120
65°	2164	2803	3214
70°	2053	2841	3343
75°	1838	2881	3453
80°	1547	2889	3133
85°	1148	2184	2060



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.3	3.1
10°-20°	542.4	8.9
20°-30°	821.1	13.5
30°-40°	993.3	16.3
40°-50°	1048.4	17.2
50°-60°	988.7	16.3
60°-70°	815.1	13.4
70°-80°	534.7	8.8
80°-90°	147.0	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°	1552.7	25.5
0°-40°	2546.0	41.9
0°-60°	4583.1	75.4
0°-90°	6080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6080.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1997	1997	1997	1997	1997	
5°	1989	1989	1984	1997	1997	189
15°	1896	1907	1919	1942	1946	535
25°	1728	1749	1780	1816	1828	796
35°	1497	1536	1589	1644	1661	937
45°	1230	1285	1364	1437	1461	949
55°	948	1015	1117	1201	1234	845
65°	648	726	839	929	962	640
75°	337	423	528	612	633	356
85°	71	122	135	131	127	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1997.1	1997.1	1997.1	1997.1	1997.1
2.5°	1999.0	1997.1	1988.4	2000.0	1999.0
5°	1989.2	1989.2	1983.6	1997.1	1997.1
7.5°	1975.7	1976.7	1974.6	1990.2	1990.2
10°	1954.4	1958.2	1961.1	1978.7	1980.5
12.5°	1929.1	1936.0	1941.6	1963.1	1965.1
15°	1896.0	1906.8	1919.3	1941.6	1945.7
17.5°	1862.0	1874.8	1888.3	1917.5	1922.4
20°	1821.3	1835.9	1858.2	1887.3	1895.0
22.5°	1775.7	1796.0	1819.3	1854.3	1864.0
25°	1728.1	1749.4	1779.6	1816.4	1828.0
27.5°	1676.6	1701.8	1735.8	1778.5	1791.1
30°	1619.3	1648.3	1690.2	1735.8	1749.4
32.5°	1558.9	1593.0	1639.6	1690.2	1705.6
35°	1496.9	1535.6	1589.1	1643.6	1661.0
37.5°	1435.6	1474.5	1537.7	1595.0	1611.4
40°	1369.5	1412.3	1481.3	1542.5	1565.8
42.5°	1299.6	1350.3	1423.0	1491.1	1513.3
45°	1229.7	1285.0	1363.8	1436.6	1460.9
47.5°	1158.8	1220.0	1306.5	1380.2	1408.4
50°	1087.9	1152.9	1243.3	1322.9	1352.1
52.5°	1016.0	1084.1	1182.1	1266.6	1292.9
55°	948.1	1015.0	1117.1	1200.6	1233.6
57.5°	869.3	945.1	1052.9	1137.5	1169.6
60°	798.4	872.4	981.1	1070.5	1105.3
62.5°	721.6	797.4	912.1	1001.4	1035.4
65°	647.9	725.7	839.3	928.7	962.5
67.5°	568.3	649.9	766.4	852.9	885.9
70°	497.4	574.1	688.6	777.1	810.2
72.5°	410.9	498.4	608.0	695.5	731.4
75°	337.1	423.4	528.4	612.0	633.3
77.5°	259.3	345.8	449.8	504.0	518.6
80°	190.4	271.9	355.5	384.7	385.5
82.5°	128.2	200.2	247.8	262.4	260.3
85°	70.9	122.4	134.9	131.1	127.2
87.5°	29.2	40.7	33.0	23.3	18.4
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)