

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: P880947

Luminaire Tested: **24CZ2-60VHE-B2750-W2D-2700K**

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: P880947  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-60VHE-B2750-W2D-2700K  
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

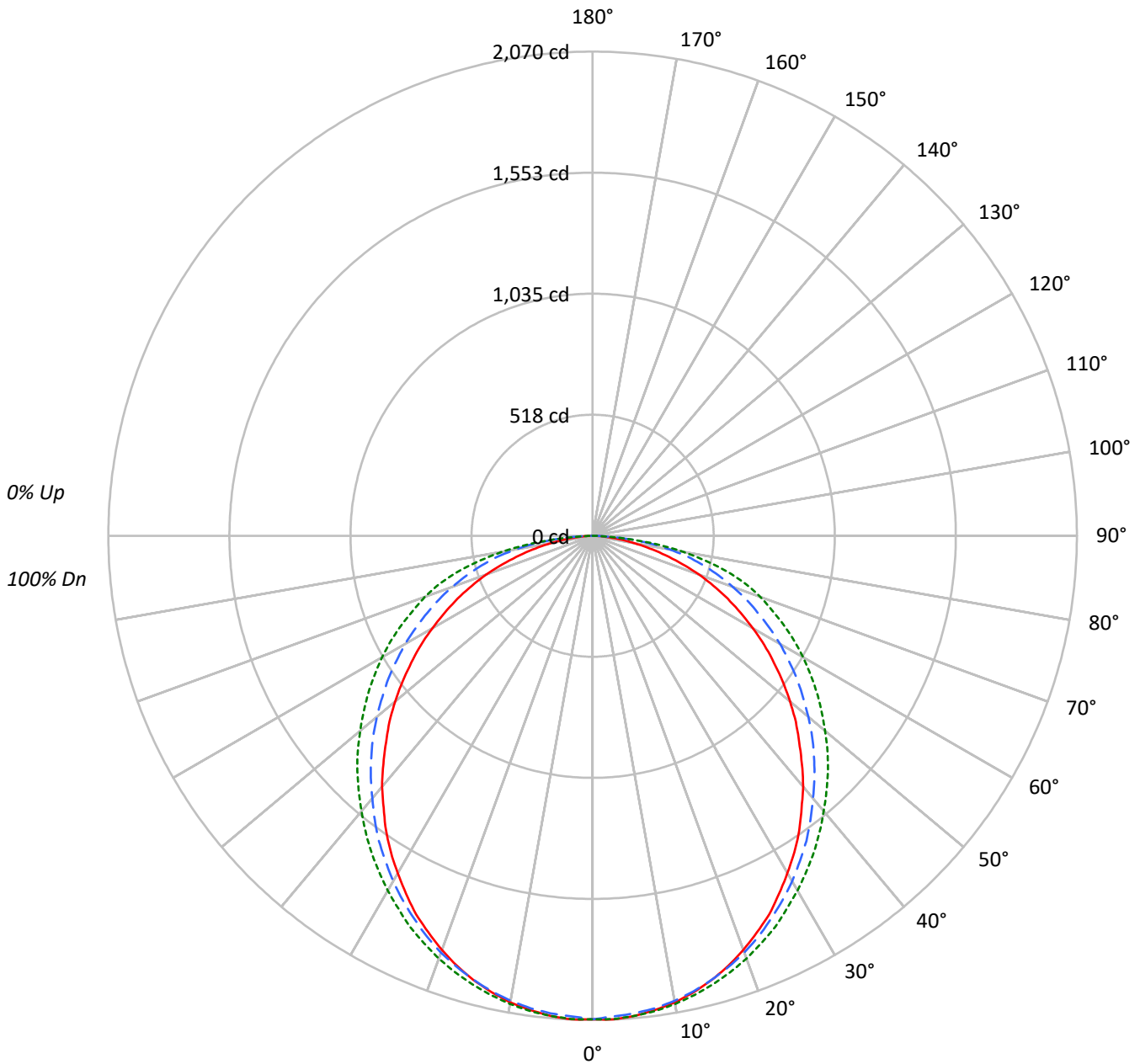
Lumens per Lamp: N/A  
Luminaire Lumens: 5982.0 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68																			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57																			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48																			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42																			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37																			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

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

	0°	45°	90°
0°	2917	2917	2917
5°	2919	2904	2919
10°	2903	2893	2913
15°	2873	2872	2900
20°	2831	2848	2888
25°	2781	2813	2874
30°	2714	2780	2854
35°	2652	2744	2842
40°	2580	2699	2831
45°	2492	2672	2839
50°	2417	2642	2848
55°	2328	2623	2880
60°	2232	2611	2933
65°	2127	2601	3008
70°	2002	2628	3146
75°	1760	2682	3272
80°	1469	2702	3158
85°	1049	2316	2346



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.4	3.3
10°-20°	556.6	9.3
20°-30°	835.0	14.0
30°-40°	996.9	16.7
40°-50°	1032.6	17.3
50°-60°	950.6	15.9
60°-70°	766.8	12.8
70°-80°	501.0	8.4
80°-90°	146.9	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°	1587.0	26.5
0°-40°	2584.0	43.2
0°-60°	4567.2	76.3
0°-90°	5982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2067	2067	2067	2067	2067	
5°	2060	2058	2050	2061	2060	196
15°	1967	1967	1966	1985	1985	554
25°	1786	1790	1806	1839	1846	821
35°	1540	1553	1593	1636	1650	962
45°	1248	1280	1338	1398	1423	965
55°	946	987	1066	1144	1170	847
65°	637	680	779	868	901	630
75°	323	384	492	577	600	345
85°	65	112	143	152	145	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2067.1	2067.1	2067.1	2067.1	2067.1
2.5°	2070.0	2067.1	2056.5	2069.0	2068.1
5°	2060.4	2058.4	2049.7	2061.3	2060.4
7.5°	2044.9	2044.0	2037.2	2049.7	2049.7
10°	2025.6	2023.7	2018.9	2033.3	2032.4
12.5°	1998.6	1997.6	1994.7	2012.1	2011.1
15°	1966.6	1966.6	1965.6	1985.1	1985.1
17.5°	1928.0	1928.9	1932.8	1955.0	1956.0
20°	1884.6	1888.4	1896.1	1921.2	1923.2
22.5°	1835.2	1842.9	1853.5	1881.7	1884.6
25°	1786.0	1789.8	1806.2	1839.0	1845.8
27.5°	1725.9	1735.8	1757.0	1790.8	1797.5
30°	1665.2	1678.7	1705.7	1740.6	1751.2
32.5°	1605.1	1616.9	1648.7	1688.3	1700.9
35°	1539.5	1553.0	1592.6	1636.2	1649.7
37.5°	1467.0	1488.2	1529.9	1580.1	1594.5
40°	1400.4	1419.7	1465.0	1521.2	1536.6
42.5°	1324.0	1348.1	1403.3	1460.2	1479.5
45°	1248.5	1279.6	1338.5	1398.5	1422.6
47.5°	1178.1	1203.2	1272.8	1340.4	1361.6
50°	1100.7	1129.7	1203.2	1274.8	1297.0
52.5°	1024.5	1059.2	1133.5	1209.0	1233.1
55°	946.1	986.7	1066.0	1144.3	1170.4
57.5°	870.7	911.4	993.4	1076.6	1103.6
60°	790.6	834.0	924.9	1005.0	1039.0
62.5°	713.2	756.6	852.4	939.4	971.2
65°	636.8	680.4	779.0	867.8	900.8
67.5°	557.7	605.0	710.3	796.4	828.2
70°	485.1	530.5	636.8	728.7	762.4
72.5°	402.0	456.2	564.4	655.1	687.2
75°	322.8	383.6	491.9	577.0	600.1
77.5°	249.3	310.3	418.4	482.2	496.7
80°	180.8	242.6	332.5	376.9	388.5
82.5°	116.9	180.8	240.6	270.5	274.4
85°	64.8	112.1	143.0	151.7	144.9
87.5°	23.2	42.5	41.5	33.8	27.0
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)