

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: P881256

Luminaire Tested: **24CZ2-60VHE-UNV-B50**

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: P881256
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-UNV-B50
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

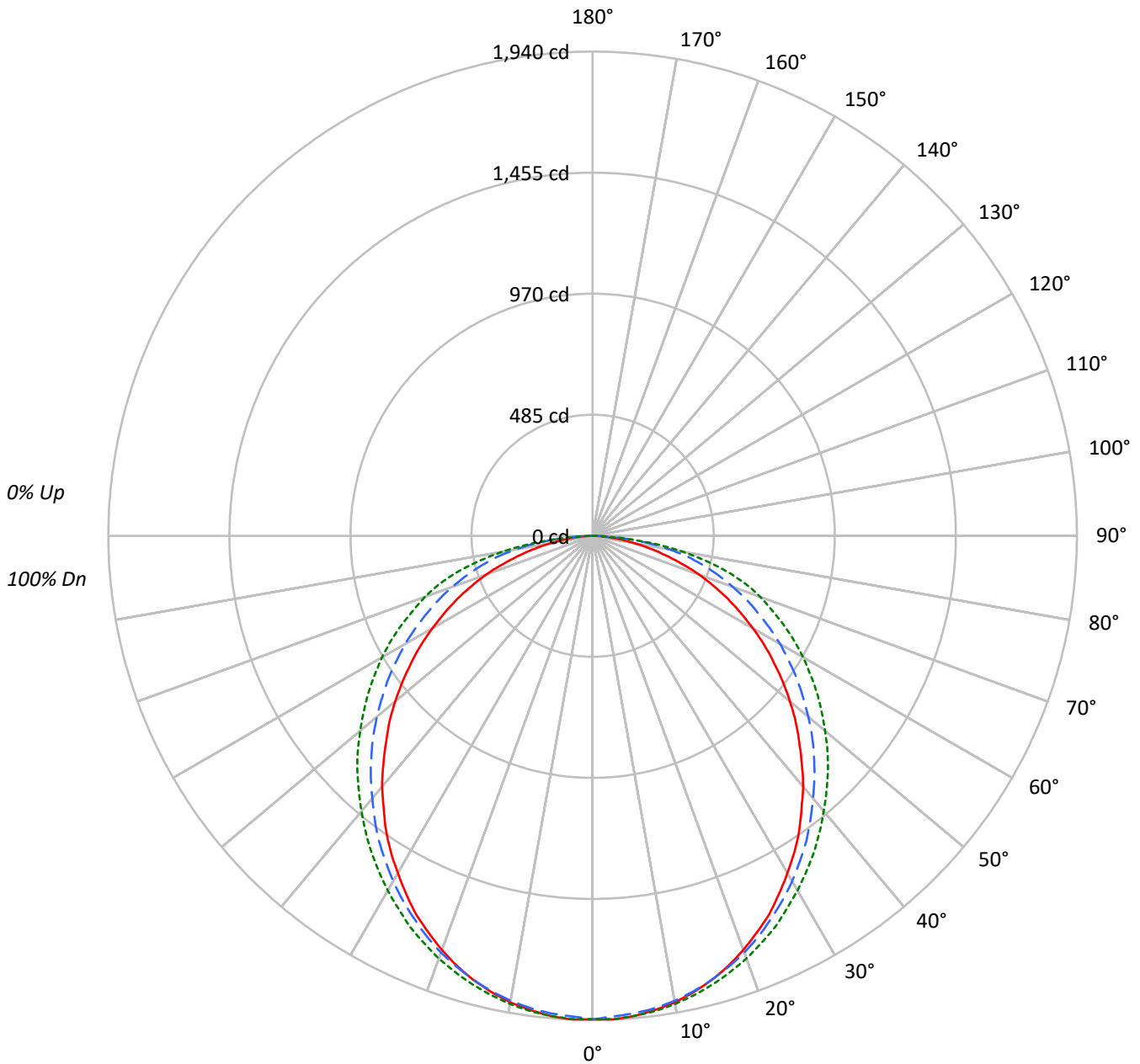
Lumens per Lamp: N/A
Luminaire Lumens: 5606.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2734	2734	2734
5°	2736	2721	2736
10°	2720	2711	2730
15°	2693	2692	2718
20°	2653	2669	2707
25°	2606	2636	2694
30°	2543	2605	2674
35°	2486	2571	2664
40°	2418	2530	2653
45°	2335	2504	2661
50°	2265	2476	2669
55°	2182	2458	2699
60°	2091	2447	2748
65°	1993	2438	2819
70°	1876	2463	2948
75°	1650	2514	3067
80°	1377	2533	2958
85°	985	2170	2199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	3.3
10°-20°	521.6	9.3
20°-30°	782.5	14.0
30°-40°	934.3	16.7
40°-50°	967.7	17.3
50°-60°	890.9	15.9
60°-70°	718.6	12.8
70°-80°	469.5	8.4
80°-90°	137.6	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°	1487.3	26.5
0°-40°	2421.5	43.2
0°-60°	4280.2	76.3
0°-90°	5606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1931	1929	1921	1932	1931	183
15°	1843	1843	1842	1860	1860	519
25°	1674	1677	1693	1723	1730	770
35°	1443	1455	1492	1533	1546	901
45°	1170	1199	1254	1311	1333	904
55°	887	925	999	1072	1097	794
65°	597	638	730	813	844	590
75°	302	360	461	541	562	323
85°	61	105	134	142	136	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1937.2	1937.2	1937.2	1937.2	1937.2
2.5°	1939.9	1937.2	1927.2	1939.0	1938.1
5°	1930.9	1929.0	1920.9	1931.8	1930.9
7.5°	1916.4	1915.5	1909.2	1920.9	1920.9
10°	1898.3	1896.5	1892.0	1905.5	1904.6
12.5°	1873.0	1872.1	1869.4	1885.6	1884.7
15°	1843.0	1843.0	1842.1	1860.3	1860.3
17.5°	1806.8	1807.7	1811.3	1832.1	1833.0
20°	1766.1	1769.7	1777.0	1800.5	1802.3
22.5°	1719.8	1727.0	1737.0	1763.4	1766.1
25°	1673.7	1677.3	1692.7	1723.4	1729.8
27.5°	1617.5	1626.7	1646.6	1678.2	1684.5
30°	1560.5	1573.1	1598.5	1631.2	1641.1
32.5°	1504.2	1515.3	1545.1	1582.2	1593.9
35°	1442.8	1455.4	1492.5	1533.4	1546.0
37.5°	1374.8	1394.7	1433.7	1480.7	1494.3
40°	1312.4	1330.5	1373.0	1425.6	1440.0
42.5°	1240.8	1263.4	1315.1	1368.4	1386.5
45°	1170.0	1199.2	1254.3	1310.6	1333.2
47.5°	1104.0	1127.6	1192.8	1256.1	1276.0
50°	1031.5	1058.7	1127.6	1194.6	1215.4
52.5°	960.1	992.6	1062.3	1133.0	1155.6
55°	886.7	924.6	999.0	1072.4	1096.8
57.5°	816.0	854.1	931.0	1008.9	1034.2
60°	740.9	781.6	866.8	941.8	973.7
62.5°	668.4	709.1	798.8	880.3	910.2
65°	596.8	637.6	730.1	813.2	844.2
67.5°	522.6	566.9	665.7	746.3	776.2
70°	454.6	497.1	596.8	682.9	714.5
72.5°	376.7	427.5	529.0	614.0	644.0
75°	302.5	359.5	461.0	540.7	562.4
77.5°	233.6	290.8	392.1	451.9	465.5
80°	169.4	227.3	311.6	353.2	364.0
82.5°	109.6	169.4	225.5	253.5	257.2
85°	60.8	105.1	134.0	142.1	135.8
87.5°	21.7	39.8	38.9	31.6	25.3
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)