

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: P881250

Luminaire Tested: **24CZ2-60VHE-S-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: P881250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60VHE-S-UNV-B50
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

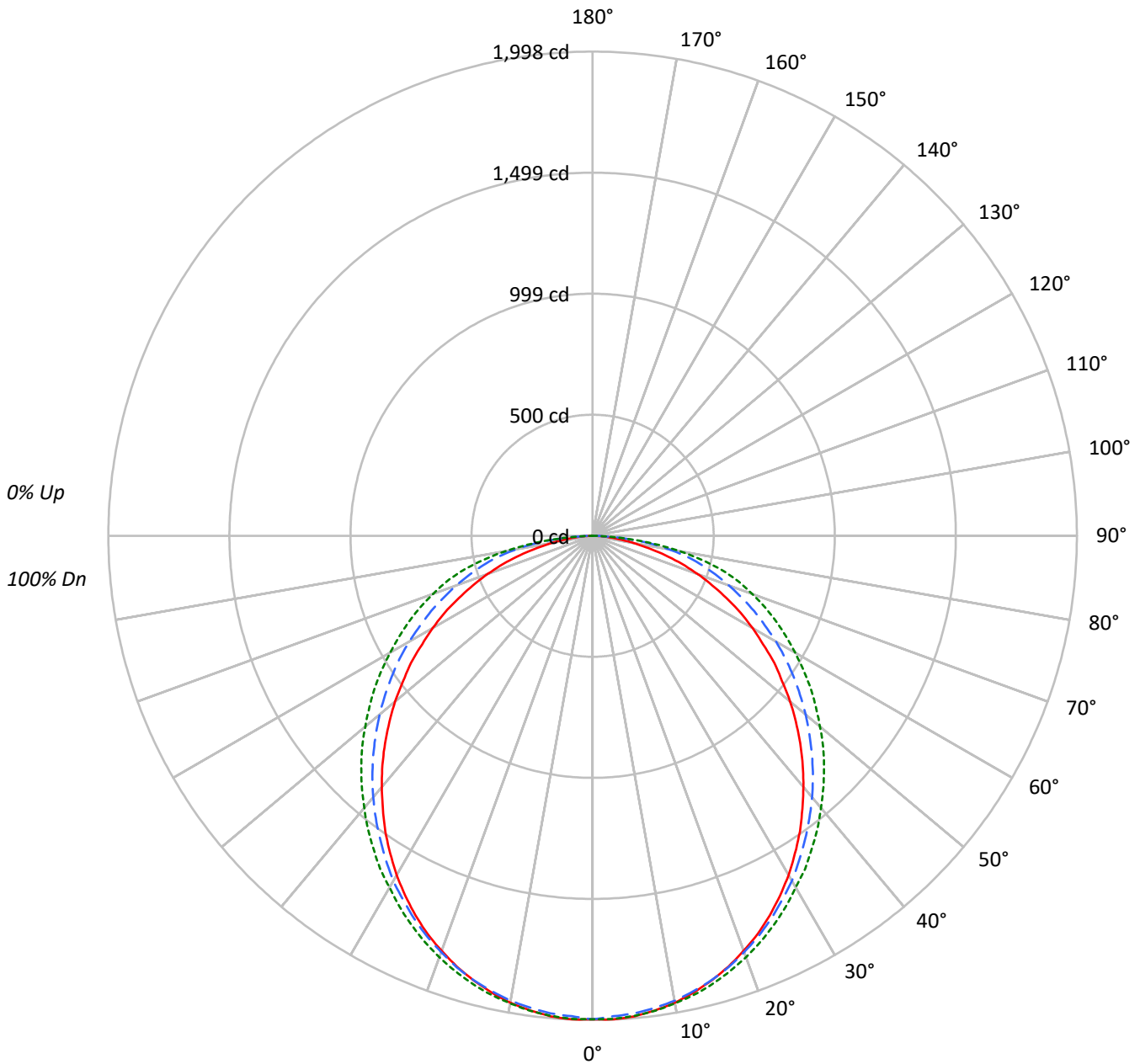
Lumens per Lamp: N/A
Luminaire Lumens: 5716.0 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68																			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57																			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2816	2816	2816
5°	2820	2803	2817
10°	2804	2792	2808
15°	2775	2774	2797
20°	2737	2745	2779
25°	2692	2715	2758
30°	2635	2681	2731
35°	2569	2634	2716
40°	2493	2595	2700
45°	2418	2554	2695
50°	2336	2519	2688
55°	2253	2488	2703
60°	2149	2464	2722
65°	2035	2455	2787
70°	1899	2468	2886
75°	1689	2539	3041
80°	1381	2594	2969
85°	973	2265	2311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	3.3
10°-20°	537.2	9.4
20°-30°	805.3	14.1
30°-40°	959.1	16.8
40°-50°	988.9	17.3
50°-60°	902.4	15.8
60°-70°	721.6	12.6
70°-80°	471.3	8.2
80°-90°	141.5	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°	1531.1	26.8
0°-40°	2490.2	43.6
0°-60°	4381.6	76.7
0°-90°	5716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1995	1995	1995	1995	1995	
5°	1990	1987	1978	1990	1989	189
15°	1899	1900	1898	1914	1914	535
25°	1728	1731	1743	1769	1771	796
35°	1491	1501	1529	1567	1576	931
45°	1211	1233	1280	1333	1350	934
55°	916	942	1011	1078	1098	815
65°	609	651	735	807	835	604
75°	310	362	466	541	558	329
85°	60	108	140	143	143	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1995.2	1995.2	1995.2	1995.2	1995.2
2.5°	1998.0	1995.2	1984.7	1997.1	1995.2
5°	1990.5	1986.6	1978.2	1990.5	1988.7
7.5°	1975.4	1973.5	1965.1	1979.1	1977.2
10°	1956.6	1954.8	1948.2	1962.2	1959.4
12.5°	1930.4	1929.5	1924.8	1941.6	1939.8
15°	1899.3	1900.2	1898.4	1914.5	1914.5
17.5°	1863.7	1862.8	1866.5	1886.2	1884.3
20°	1822.3	1823.3	1827.9	1850.6	1850.6
22.5°	1779.2	1778.3	1788.6	1811.1	1812.9
25°	1728.5	1731.3	1743.4	1768.9	1770.8
27.5°	1674.0	1678.8	1693.8	1722.8	1725.7
30°	1616.8	1622.4	1644.9	1672.1	1675.8
32.5°	1553.9	1566.1	1586.7	1621.5	1630.9
35°	1490.9	1501.2	1528.6	1567.0	1576.4
37.5°	1421.4	1438.3	1469.4	1511.5	1523.9
40°	1352.9	1369.9	1408.3	1452.5	1465.6
42.5°	1283.4	1301.4	1345.4	1395.2	1409.3
45°	1211.3	1232.8	1279.6	1333.2	1350.1
47.5°	1137.1	1162.4	1213.1	1271.2	1290.1
50°	1063.8	1089.1	1147.4	1207.3	1224.4
52.5°	985.0	1016.8	1078.8	1143.6	1160.5
55°	915.5	941.7	1011.2	1077.9	1098.5
57.5°	833.8	869.4	943.6	1011.2	1030.9
60°	761.5	794.3	873.1	941.7	964.2
62.5°	688.2	722.0	800.8	878.7	899.5
65°	609.4	650.6	735.1	807.4	834.7
67.5°	534.3	577.3	663.9	740.7	769.0
70°	460.1	504.1	598.1	677.0	699.5
72.5°	386.8	432.9	530.5	607.5	633.7
75°	309.8	361.5	465.7	540.8	557.7
77.5°	237.5	294.9	399.9	450.7	462.9
80°	169.9	232.8	319.2	355.9	365.3
82.5°	111.6	172.7	238.5	258.1	255.3
85°	60.1	107.9	139.9	142.7	142.7
87.5°	23.4	43.3	44.2	33.7	31.8
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)