

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: P881288

Luminaire Tested: **24CZ2-75VHE-HRP-UNV-B40**

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: P881288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474369)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75VHE-HRP-UNV-B40
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

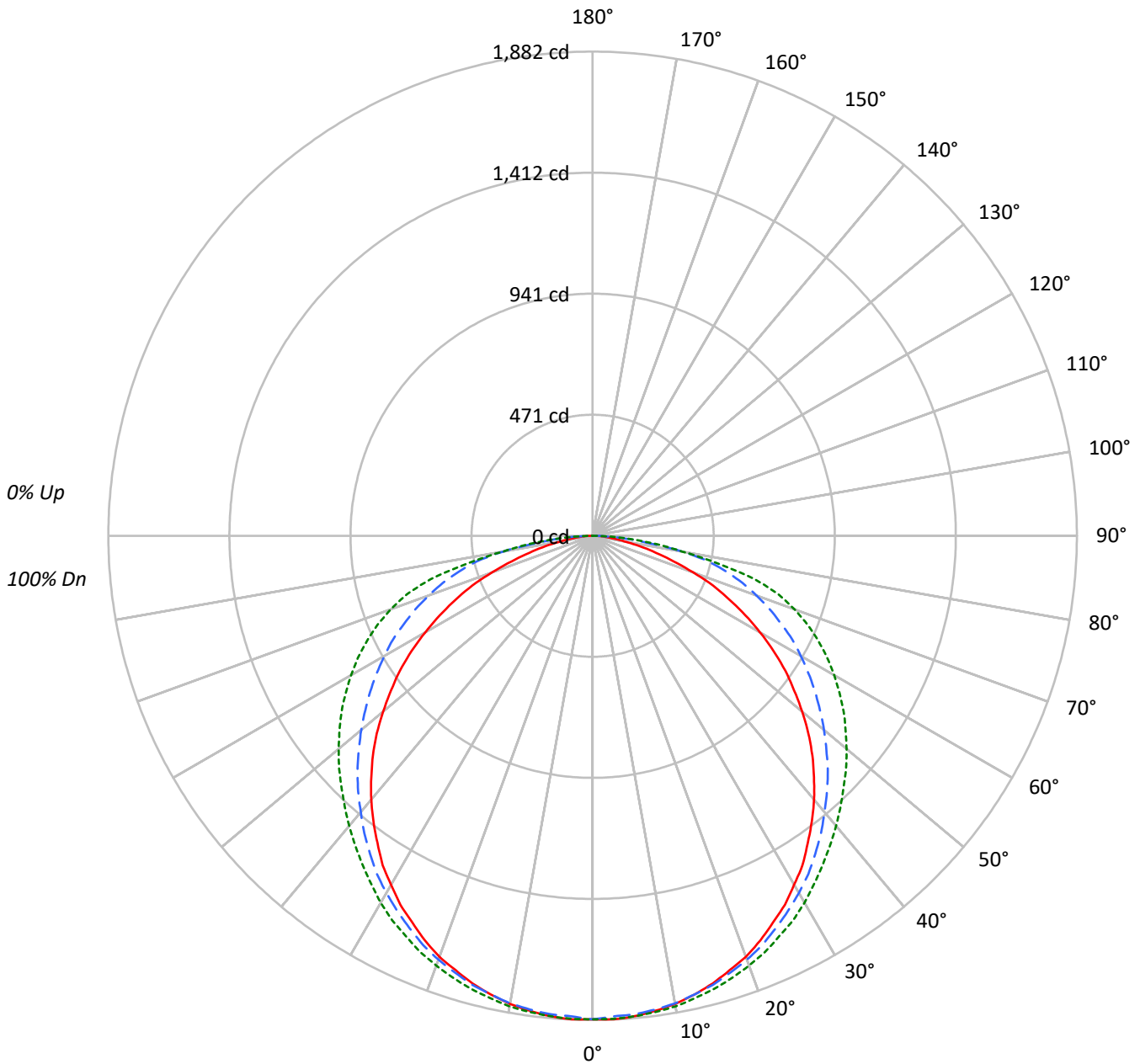
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5793.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	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	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	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	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2653	2653	2653
5°	2656	2645	2656
10°	2648	2645	2662
15°	2633	2640	2665
20°	2615	2633	2670
25°	2583	2621	2674
30°	2553	2612	2684
35°	2511	2599	2687
40°	2466	2583	2712
45°	2410	2580	2754
50°	2332	2577	2828
55°	2250	2596	2930
60°	2122	2636	3060
65°	1960	2697	3232
70°	1711	2792	3442
75°	1388	2935	3557
80°	1026	2880	2880
85°	785	2121	2397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	3.1
10°-20°	511.3	8.8
20°-30°	778.4	13.4
30°-40°	945.1	16.3
40°-50°	998.5	17.2
50°-60°	942.2	16.3
60°-70°	783.5	13.5
70°-80°	515.4	8.9
80°-90°	140.5	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°	1467.7	25.3
0°-40°	2412.8	41.7
0°-60°	4353.6	75.2
0°-90°	5793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5793.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1880	1880	1880	1880	1880	
5°	1875	1875	1867	1875	1875	178
15°	1802	1804	1807	1824	1824	508
25°	1659	1668	1683	1712	1717	765
35°	1458	1475	1508	1547	1560	912
45°	1208	1232	1292	1356	1380	930
55°	914	953	1055	1154	1191	814
65°	587	655	808	926	968	580
75°	255	371	538	638	652	274
85°	48	107	131	146	148	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1879.5	1879.5	1879.5	1879.5	1879.5
2.5°	1881.9	1879.5	1869.7	1879.5	1879.5
5°	1874.8	1874.8	1867.3	1874.8	1874.8
7.5°	1862.6	1862.6	1857.5	1867.3	1867.3
10°	1848.0	1848.0	1845.6	1857.5	1857.5
12.5°	1826.2	1828.4	1826.2	1840.6	1840.6
15°	1801.9	1804.2	1806.9	1823.8	1823.8
17.5°	1770.5	1775.3	1780.1	1799.5	1801.9
20°	1741.4	1743.5	1753.3	1775.3	1777.7
22.5°	1702.7	1709.8	1722.0	1743.5	1751.2
25°	1658.7	1668.5	1683.1	1712.2	1717.0
27.5°	1617.6	1625.0	1644.3	1675.9	1685.7
30°	1566.6	1578.8	1603.0	1634.5	1646.7
32.5°	1518.1	1530.3	1559.5	1593.2	1603.0
35°	1457.6	1474.6	1508.3	1547.3	1559.5
37.5°	1399.3	1416.3	1457.6	1501.1	1516.0
40°	1338.6	1358.0	1401.9	1452.6	1472.0
42.5°	1273.1	1299.9	1348.4	1404.1	1426.1
45°	1207.6	1232.0	1292.5	1355.6	1380.0
47.5°	1137.6	1166.7	1232.0	1307.3	1336.4
50°	1062.3	1098.6	1173.9	1256.1	1287.9
52.5°	987.2	1028.3	1113.2	1205.2	1239.4
55°	914.3	953.0	1054.9	1154.5	1190.9
57.5°	834.2	883.0	994.4	1101.0	1137.6
60°	751.8	805.3	933.7	1045.1	1084.0
62.5°	669.3	730.0	875.3	987.2	1028.3
65°	586.8	655.0	807.7	926.5	967.9
67.5°	506.8	582.1	744.6	863.4	904.5
70°	414.7	509.4	676.5	793.1	834.2
72.5°	329.9	439.1	611.0	720.5	756.8
75°	254.6	371.2	538.3	637.7	652.3
77.5°	186.7	303.1	463.3	497.0	499.6
80°	126.2	242.4	354.3	349.2	354.3
82.5°	82.5	181.9	223.0	249.8	252.2
85°	48.5	106.8	131.0	145.6	148.0
87.5°	24.1	36.3	46.1	48.5	53.3
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)