

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: P881029

Luminaire Tested: **24CZ2-75VHE-HRP-B2750-W2D-3500K**

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: P881029
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-B2750-W2D-3500K
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

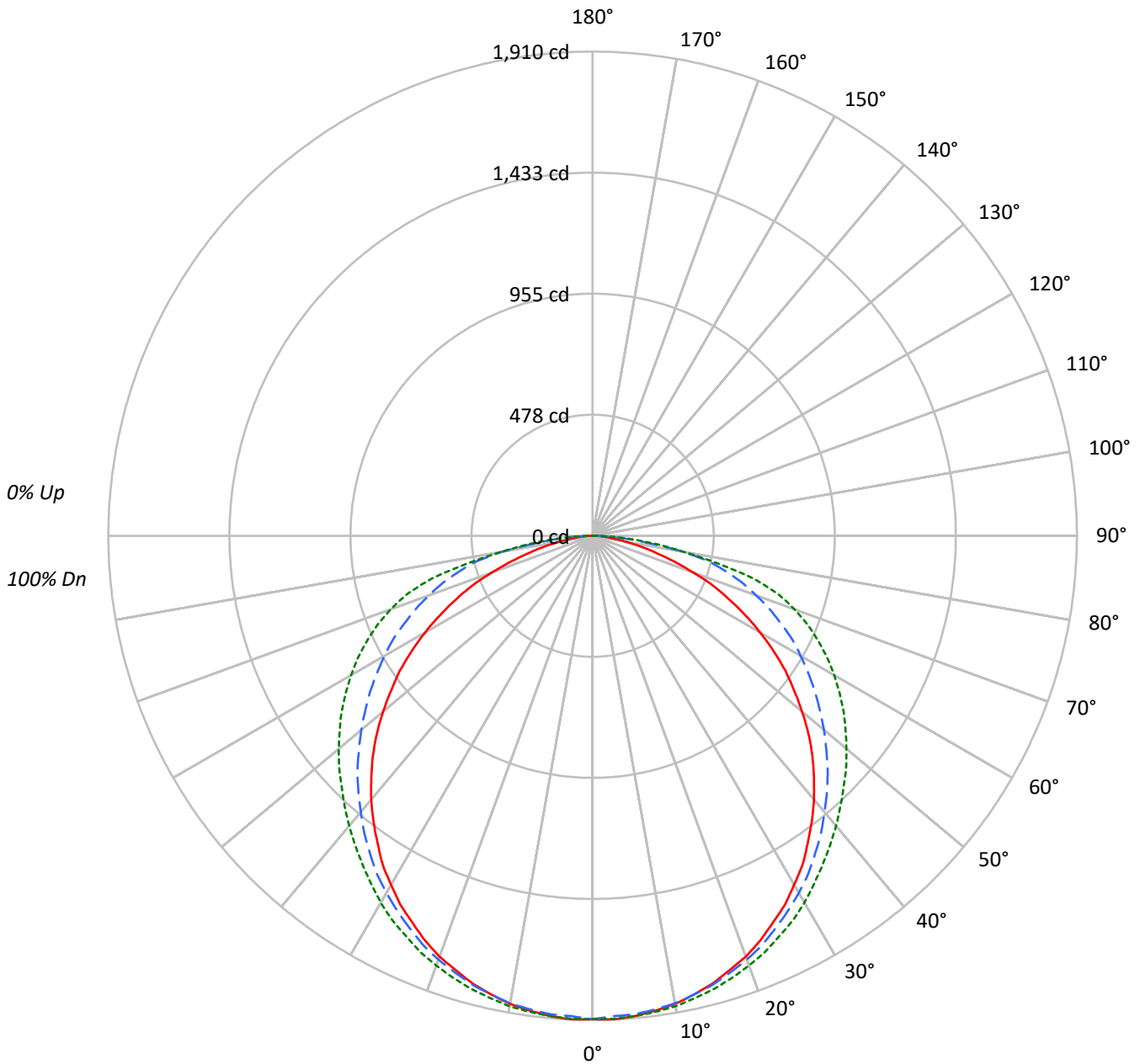
Lumens per Lamp: N/A
Luminaire Lumens: 5878.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P881029

CATALOG NUMBER: 24CZ2-75VHE-HRP-B2750-W2D-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P881029

CATALOG NUMBER: 24CZ2-75VHE-HRP-B2750-W2D-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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			
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°	2692	2692	2692
5°	2695	2684	2695
10°	2687	2684	2701
15°	2671	2679	2704
20°	2654	2672	2709
25°	2621	2659	2713
30°	2591	2651	2723
35°	2548	2637	2726
40°	2502	2621	2752
45°	2446	2617	2795
50°	2367	2615	2869
55°	2283	2634	2973
60°	2153	2674	3105
65°	1988	2737	3280
70°	1736	2832	3493
75°	1409	2978	3609
80°	1041	2921	2921
85°	797	2152	2431



TEST NUMBER: P881029

CATALOG NUMBER: 24CZ2-75VHE-HRP-B2750-W2D-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	3.1
10°-20°	518.8	8.8
20°-30°	789.8	13.4
30°-40°	959.0	16.3
40°-50°	1013.2	17.2
50°-60°	956.1	16.3
60°-70°	795.0	13.5
70°-80°	523.0	8.9
80°-90°	142.6	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°	1489.3	25.3
0°-40°	2448.3	41.7
0°-60°	4417.5	75.2
0°-90°	5878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1907	1907	1907	1907	1907	
5°	1902	1902	1895	1902	1902	181
15°	1828	1831	1833	1851	1851	516
25°	1683	1693	1708	1737	1742	776
35°	1479	1496	1530	1570	1582	926
45°	1225	1250	1311	1376	1400	944
55°	928	967	1070	1172	1208	826
65°	595	665	820	940	982	589
75°	258	377	546	647	662	278
85°	49	108	133	148	150	60
90°	0	0	0	0	0	



TEST NUMBER: P881029

CATALOG NUMBER: 24CZ2-75VHE-HRP-B2750-W2D-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1907.1	1907.1	1907.1	1907.1	1907.1
2.5°	1909.5	1907.1	1897.2	1907.1	1907.1
5°	1902.3	1902.3	1894.7	1902.3	1902.3
7.5°	1889.9	1889.9	1884.8	1894.7	1894.7
10°	1875.1	1875.1	1872.7	1884.8	1884.8
12.5°	1853.0	1855.2	1853.0	1867.6	1867.6
15°	1828.3	1830.7	1833.4	1850.6	1850.6
17.5°	1796.5	1801.4	1806.2	1825.9	1828.3
20°	1766.9	1769.1	1779.1	1801.4	1803.8
22.5°	1727.6	1734.9	1747.3	1769.1	1776.9
25°	1683.0	1693.0	1707.7	1737.3	1742.2
27.5°	1641.3	1648.8	1668.5	1700.5	1710.4
30°	1589.6	1602.0	1626.5	1658.5	1670.9
32.5°	1540.4	1552.8	1582.4	1616.5	1626.5
35°	1479.0	1496.2	1530.4	1570.0	1582.4
37.5°	1419.8	1437.1	1479.0	1523.2	1538.2
40°	1358.2	1377.9	1422.5	1473.9	1493.6
42.5°	1291.8	1318.9	1368.2	1424.7	1447.0
45°	1225.3	1250.1	1311.4	1375.5	1400.2
47.5°	1154.3	1183.9	1250.1	1326.5	1356.1
50°	1077.9	1114.7	1191.1	1274.6	1306.8
52.5°	1001.7	1043.4	1129.5	1222.9	1257.6
55°	927.7	967.0	1070.3	1171.5	1208.3
57.5°	846.5	896.0	1009.0	1117.2	1154.3
60°	762.8	817.1	947.4	1060.4	1099.9
62.5°	679.1	740.7	888.2	1001.7	1043.4
65°	595.4	664.6	819.6	940.1	982.1
67.5°	514.2	590.6	755.5	876.1	917.8
70°	420.8	516.9	686.4	804.8	846.5
72.5°	334.7	445.6	619.9	731.0	767.9
75°	258.3	376.7	546.2	647.1	661.9
77.5°	189.4	307.5	470.0	504.2	506.9
80°	128.1	245.9	359.4	354.4	359.4
82.5°	83.7	184.6	226.3	253.5	255.9
85°	49.2	108.4	132.9	147.7	150.1
87.5°	24.5	36.9	46.8	49.2	54.1
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)