

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: P881022

Luminaire Tested: **24CZ2-75VHE-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: P881022
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: 24CZ2-75VHE-B2750-W2D-2700K
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

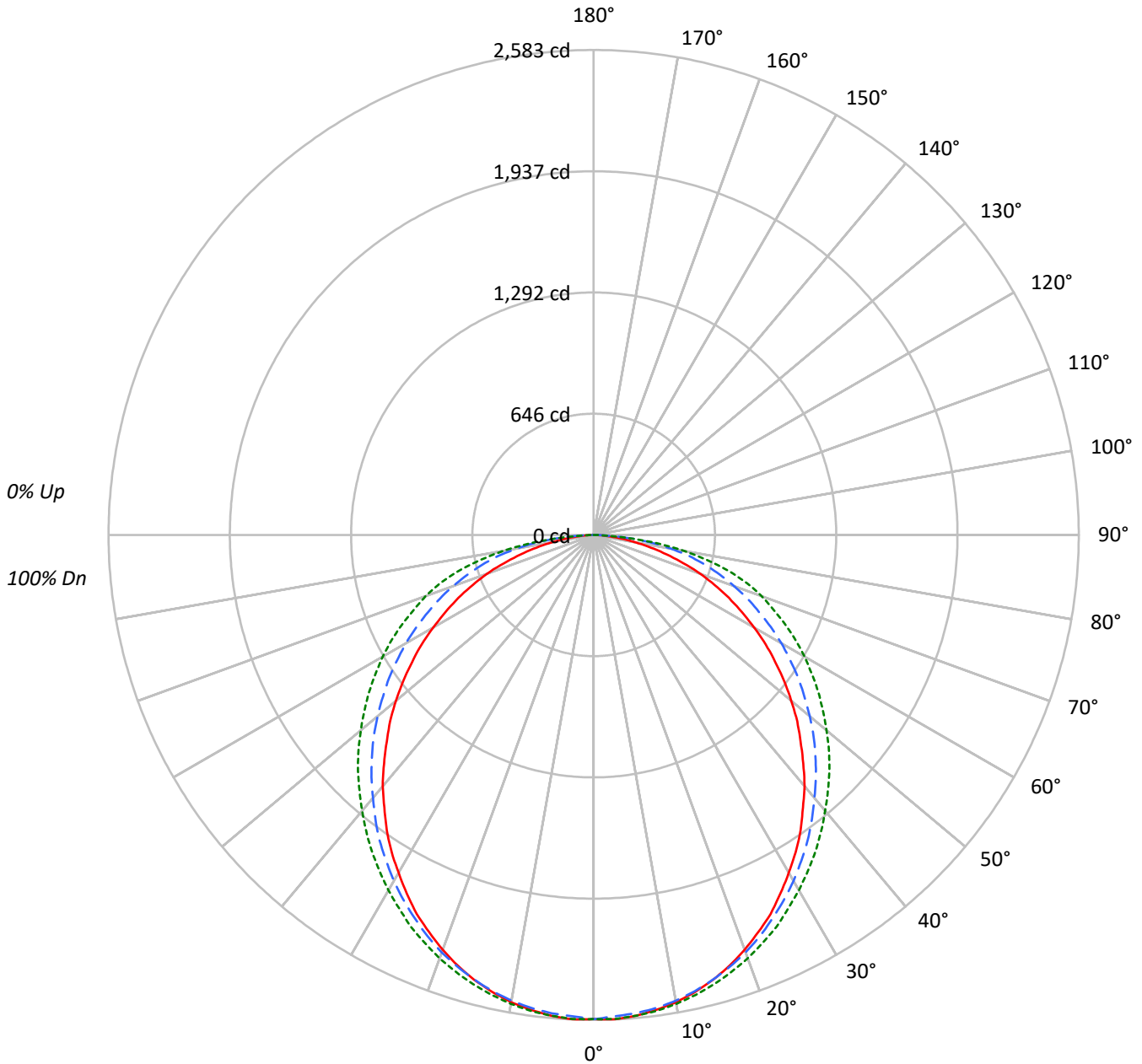
Lumens per Lamp: N/A
Luminaire Lumens: 7464.0 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P881022

CATALOG NUMBER: 24CZ2-75VHE-B2750-W2D-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P881022

CATALOG NUMBER: 24CZ2-75VHE-B2750-W2D-2700K

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°	3640	3640	3640
5°	3642	3623	3642
10°	3622	3610	3634
15°	3585	3584	3619
20°	3532	3553	3604
25°	3470	3510	3586
30°	3386	3468	3561
35°	3310	3424	3546
40°	3219	3368	3532
45°	3109	3333	3543
50°	3016	3296	3553
55°	2905	3273	3593
60°	2785	3258	3659
65°	2654	3246	3754
70°	2498	3279	3926
75°	2196	3347	4083
80°	1834	3372	3939
85°	1310	2889	2928



TEST NUMBER: P881022

CATALOG NUMBER: 24CZ2-75VHE-B2750-W2D-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	3.3
10°-20°	694.5	9.3
20°-30°	1041.9	14.0
30°-40°	1243.9	16.7
40°-50°	1288.5	17.3
50°-60°	1186.2	15.9
60°-70°	956.8	12.8
70°-80°	625.2	8.4
80°-90°	183.3	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°	1980.2	26.5
0°-40°	3224.1	43.2
0°-60°	5698.7	76.3
0°-90°	7464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2579	2579	2579	2579	2579	
5°	2571	2568	2558	2572	2571	244
15°	2454	2454	2453	2477	2477	691
25°	2228	2233	2254	2295	2303	1025
35°	1921	1938	1987	2042	2058	1200
45°	1558	1597	1670	1745	1775	1204
55°	1180	1231	1330	1428	1460	1056
65°	795	849	972	1083	1124	786
75°	403	479	614	720	749	430
85°	81	140	178	189	181	100
90°	0	0	0	0	0	



TEST NUMBER: P881022

CATALOG NUMBER: 24CZ2-75VHE-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2579.2	2579.2	2579.2	2579.2	2579.2
2.5°	2582.8	2579.2	2566.0	2581.6	2580.4
5°	2570.8	2568.4	2557.6	2572.0	2570.8
7.5°	2551.5	2550.3	2541.9	2557.6	2557.6
10°	2527.5	2525.0	2519.0	2537.1	2535.9
12.5°	2493.7	2492.5	2488.9	2510.6	2509.4
15°	2453.8	2453.8	2452.6	2476.9	2476.9
17.5°	2405.6	2406.8	2411.6	2439.3	2440.5
20°	2351.4	2356.3	2365.9	2397.2	2399.6
22.5°	2289.8	2299.4	2312.7	2347.8	2351.4
25°	2228.4	2233.2	2253.7	2294.6	2303.1
27.5°	2153.5	2165.8	2192.3	2234.4	2242.9
30°	2077.7	2094.5	2128.2	2171.8	2185.1
32.5°	2002.8	2017.5	2057.2	2106.6	2122.2
35°	1920.9	1937.8	1987.1	2041.6	2058.4
37.5°	1830.4	1856.9	1908.9	1971.5	1989.6
40°	1747.3	1771.4	1828.0	1898.1	1917.3
42.5°	1652.0	1682.1	1750.9	1822.0	1846.1
45°	1557.8	1596.6	1670.0	1744.9	1775.0
47.5°	1470.0	1501.3	1588.2	1672.5	1698.9
50°	1373.4	1409.5	1501.3	1590.6	1618.3
52.5°	1278.3	1321.6	1414.3	1508.5	1538.6
55°	1180.5	1231.1	1330.1	1427.8	1460.3
57.5°	1086.4	1137.2	1239.5	1343.3	1377.0
60°	986.5	1040.6	1154.1	1254.0	1296.4
62.5°	889.9	944.1	1063.5	1172.1	1211.8
65°	794.6	849.0	972.0	1082.8	1124.0
67.5°	695.9	754.8	886.3	993.7	1033.4
70°	605.3	661.9	794.6	909.2	951.3
72.5°	501.5	569.2	704.3	817.4	857.4
75°	402.8	478.7	613.7	719.9	748.8
77.5°	311.1	387.2	522.0	601.7	619.8
80°	225.6	302.7	414.9	470.2	484.7
82.5°	145.9	225.6	300.3	337.6	342.4
85°	80.9	139.9	178.4	189.3	180.8
87.5°	28.9	53.0	51.8	42.1	33.7
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)