

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: P881041

Luminaire Tested: **24CZ2-75VHE-S-B2750-W2D-5000K**

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: P881041  
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: 24CZ2-75VHE-S-B2750-W2D-5000K  
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

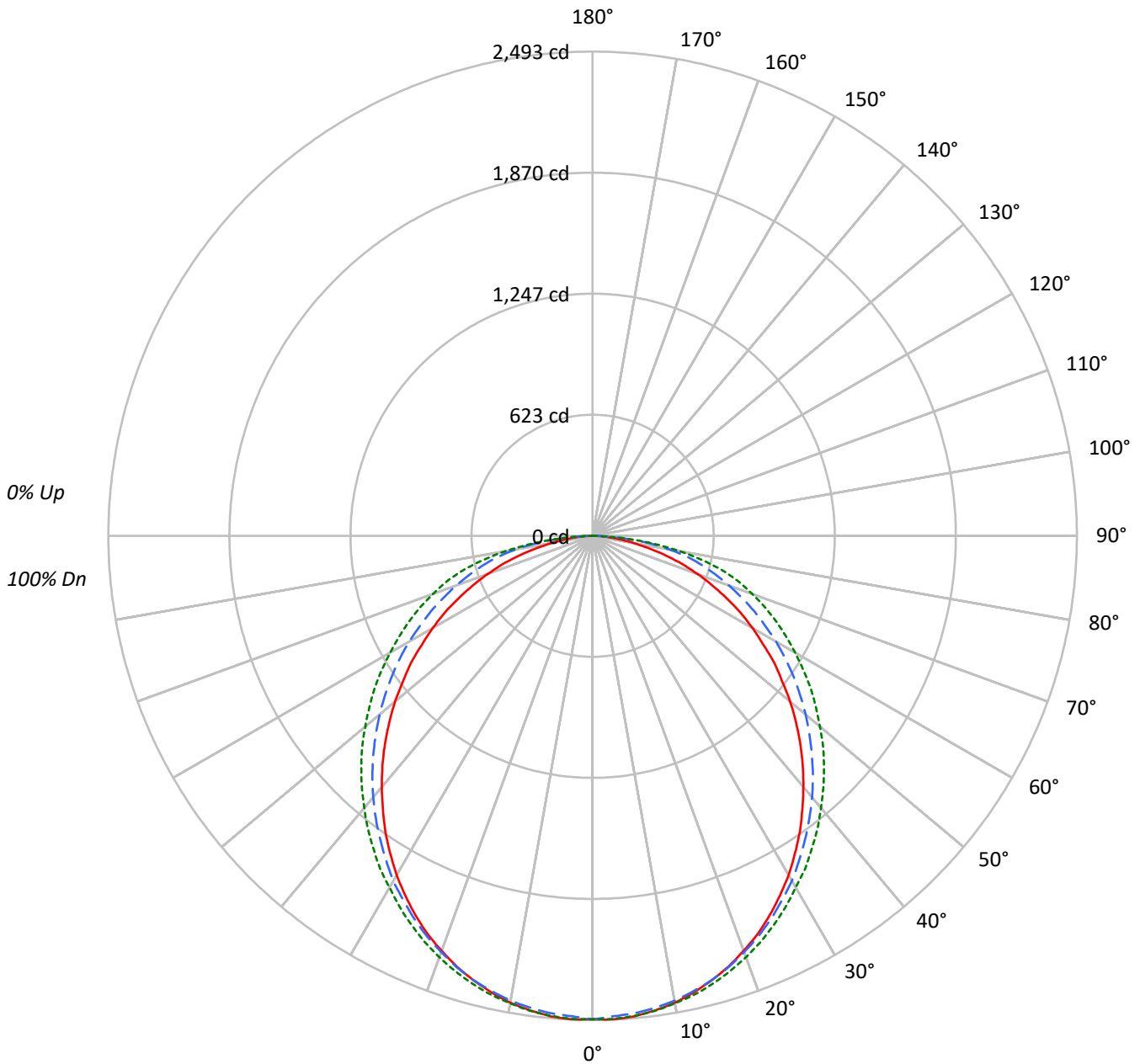
Lumens per Lamp: N/A  
Luminaire Lumens: 7132.0 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	3514	3514	3514
5°	3519	3497	3515
10°	3499	3484	3504
15°	3463	3461	3490
20°	3415	3426	3468
25°	3358	3387	3441
30°	3288	3345	3408
35°	3205	3286	3389
40°	3110	3237	3369
45°	3016	3187	3362
50°	2915	3143	3354
55°	2810	3105	3372
60°	2682	3075	3396
65°	2539	3063	3478
70°	2369	3080	3602
75°	2108	3169	3794
80°	1723	3237	3705
85°	1214	2827	2884



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.3	3.3
10°-20°	670.3	9.4
20°-30°	1004.8	14.1
30°-40°	1196.7	16.8
40°-50°	1233.9	17.3
50°-60°	1126.0	15.8
60°-70°	900.3	12.6
70°-80°	588.1	8.2
80°-90°	176.6	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°	1910.4	26.8
0°-40°	3107.1	43.6
0°-60°	5467.0	76.7
0°-90°	7132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7132.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2490	2490	2490	2490	2490	
5°	2484	2479	2468	2484	2481	236
15°	2370	2371	2369	2389	2389	668
25°	2157	2160	2175	2207	2210	993
35°	1860	1873	1907	1955	1967	1162
45°	1511	1538	1597	1664	1684	1165
55°	1142	1175	1262	1345	1371	1017
65°	760	812	917	1007	1042	754
75°	387	451	581	675	696	411
85°	75	135	175	178	178	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2489.5	2489.5	2489.5	2489.5	2489.5
2.5°	2493.0	2489.5	2476.4	2491.8	2489.5
5°	2483.6	2478.7	2468.2	2483.6	2481.3
7.5°	2464.7	2462.4	2451.9	2469.4	2467.0
10°	2441.3	2439.0	2430.8	2448.3	2444.8
12.5°	2408.6	2407.4	2401.6	2422.6	2420.3
15°	2369.8	2371.0	2368.6	2388.7	2388.7
17.5°	2325.4	2324.2	2328.9	2353.5	2351.1
20°	2273.7	2274.9	2280.8	2309.0	2309.0
22.5°	2220.0	2218.8	2231.7	2259.7	2262.1
25°	2156.6	2160.2	2175.3	2207.1	2209.5
27.5°	2088.6	2094.7	2113.4	2149.6	2153.1
30°	2017.3	2024.4	2052.4	2086.3	2091.0
32.5°	1938.8	1954.0	1979.7	2023.2	2034.9
35°	1860.3	1873.1	1907.3	1955.2	1966.9
37.5°	1773.6	1794.6	1833.4	1886.0	1901.4
40°	1688.0	1709.3	1757.2	1812.4	1828.7
42.5°	1601.3	1623.7	1678.7	1740.8	1758.4
45°	1511.3	1538.2	1596.6	1663.5	1684.5
47.5°	1418.8	1450.3	1513.7	1586.1	1609.7
50°	1327.4	1358.9	1431.6	1506.4	1527.7
52.5°	1229.0	1268.7	1346.1	1426.9	1448.0
55°	1142.2	1175.0	1261.7	1344.9	1370.6
57.5°	1040.3	1084.8	1177.3	1261.7	1286.2
60°	950.1	991.0	1089.4	1175.0	1203.0
62.5°	858.7	900.8	999.2	1096.4	1122.4
65°	760.3	811.8	917.2	1007.4	1041.5
67.5°	666.6	720.4	828.3	924.2	959.5
70°	574.0	629.0	746.3	844.7	872.8
72.5°	482.7	540.2	661.9	758.0	790.7
75°	386.6	451.1	581.1	674.8	695.8
77.5°	296.4	367.9	499.0	562.4	577.6
80°	212.0	290.5	398.3	444.1	455.8
82.5°	139.3	215.5	297.5	322.1	318.6
85°	75.0	134.6	174.6	178.1	178.1
87.5°	29.2	54.0	55.2	42.1	39.7
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)