

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: P881039

Luminaire Tested: **24CZ2-75VHE-S-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: P881039  
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-3500K  
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

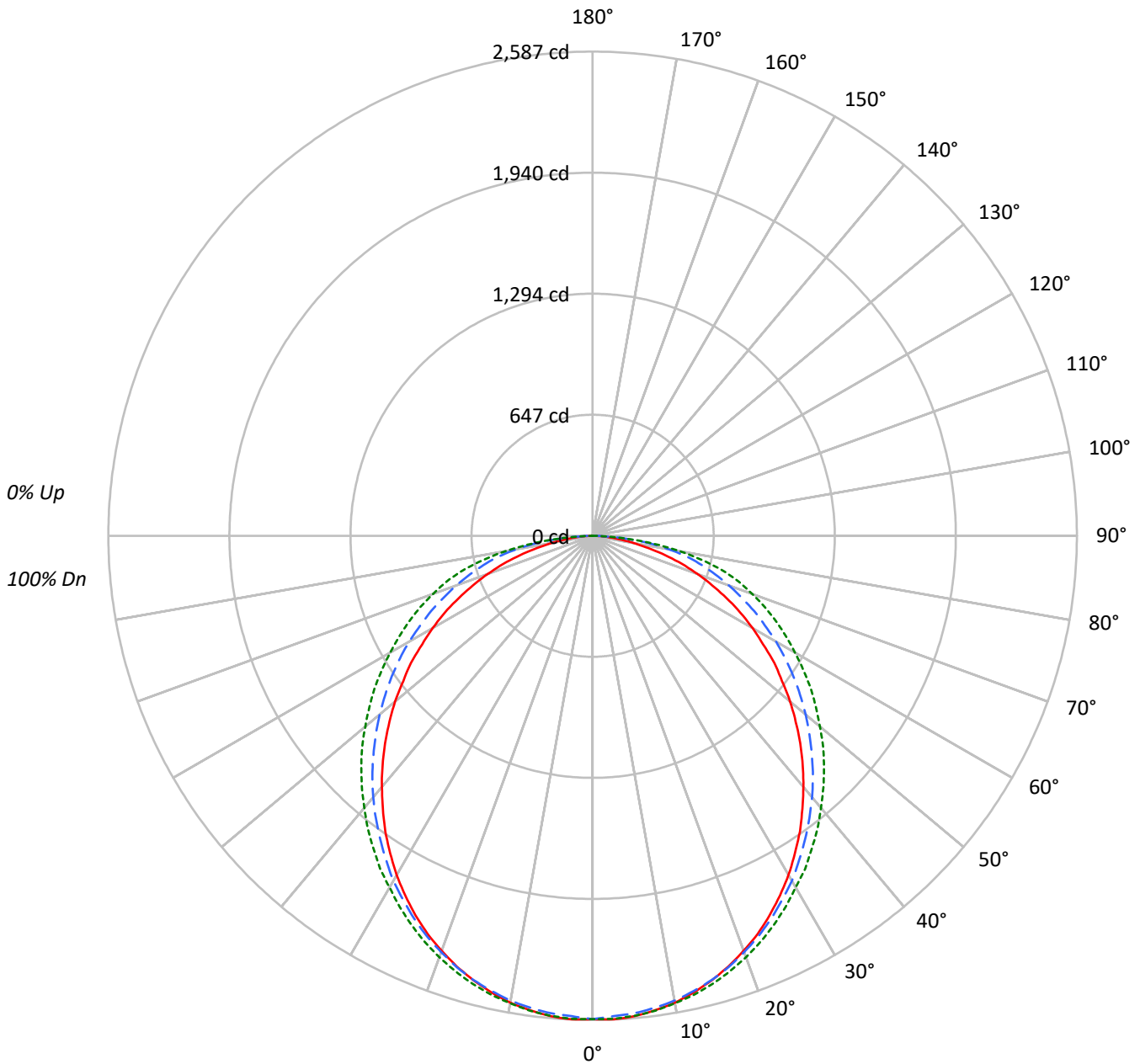
Lumens per Lamp: N/A  
Luminaire Lumens: 7400.0 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 60  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3645	3645	3645
5°	3651	3628	3647
10°	3630	3615	3635
15°	3593	3591	3621
20°	3543	3554	3598
25°	3485	3515	3570
30°	3411	3470	3536
35°	3326	3410	3516
40°	3227	3359	3496
45°	3130	3306	3488
50°	3024	3261	3480
55°	2916	3221	3499
60°	2783	3191	3523
65°	2635	3178	3609
70°	2458	3196	3737
75°	2187	3288	3937
80°	1788	3358	3844
85°	1260	2934	2993



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.2	3.3
10°-20°	695.5	9.4
20°-30°	1042.5	14.1
30°-40°	1241.7	16.8
40°-50°	1280.3	17.3
50°-60°	1168.3	15.8
60°-70°	934.2	12.6
70°-80°	610.2	8.2
80°-90°	183.2	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°	1982.2	26.8
0°-40°	3223.9	43.6
0°-60°	5672.4	76.7
0°-90°	7400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2583	2583	2583	2583	2583	
5°	2577	2572	2561	2577	2574	245
15°	2459	2460	2458	2478	2478	693
25°	2238	2241	2257	2290	2292	1030
35°	1930	1944	1979	2029	2041	1206
45°	1568	1596	1657	1726	1748	1209
55°	1185	1219	1309	1395	1422	1056
65°	789	842	952	1045	1081	782
75°	401	468	603	700	722	426
85°	78	140	181	185	185	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2583.0	2583.0	2583.0	2583.0	2583.0
2.5°	2586.7	2583.0	2569.4	2585.5	2583.0
5°	2577.0	2571.9	2561.0	2577.0	2574.5
7.5°	2557.3	2554.9	2544.0	2562.2	2559.7
10°	2533.1	2530.6	2522.2	2540.3	2536.7
12.5°	2499.1	2497.9	2491.8	2513.7	2511.2
15°	2458.9	2460.1	2457.6	2478.5	2478.5
17.5°	2412.8	2411.6	2416.4	2441.9	2439.5
20°	2359.2	2360.4	2366.5	2395.8	2395.8
22.5°	2303.4	2302.2	2315.5	2344.6	2347.1
25°	2237.7	2241.3	2257.1	2290.1	2292.5
27.5°	2167.1	2173.4	2192.8	2230.4	2234.1
30°	2093.1	2100.4	2129.5	2164.7	2169.5
32.5°	2011.7	2027.4	2054.1	2099.2	2111.3
35°	1930.2	1943.5	1978.9	2028.6	2040.8
37.5°	1840.2	1862.0	1902.3	1956.9	1972.9
40°	1751.4	1773.5	1823.2	1880.5	1897.4
42.5°	1661.5	1684.8	1741.7	1806.3	1824.4
45°	1568.1	1596.0	1656.6	1726.0	1747.8
47.5°	1472.1	1504.8	1570.5	1645.7	1670.2
50°	1377.2	1410.0	1485.4	1563.0	1585.1
52.5°	1275.1	1316.4	1396.6	1480.6	1502.4
55°	1185.2	1219.1	1309.1	1395.4	1422.1
57.5°	1079.4	1125.5	1221.5	1309.1	1334.6
60°	985.8	1028.3	1130.4	1219.1	1248.2
62.5°	891.0	934.7	1036.8	1137.6	1164.6
65°	788.9	842.3	951.6	1045.2	1080.6
67.5°	691.7	747.4	859.5	958.9	995.5
70°	595.6	652.6	774.4	876.5	905.6
72.5°	500.8	560.5	686.8	786.5	820.4
75°	401.1	468.1	602.9	700.1	722.0
77.5°	307.5	381.7	517.8	583.5	599.3
80°	220.0	301.4	413.2	460.8	472.9
82.5°	144.5	223.6	308.7	334.2	330.5
85°	77.8	139.7	181.2	184.8	184.8
87.5°	30.3	56.0	57.2	43.7	41.2
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)