

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: P881023

Luminaire Tested: **24CZ2-75VHE-B2750-W2D-3000K**

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: P881023
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-3000K
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

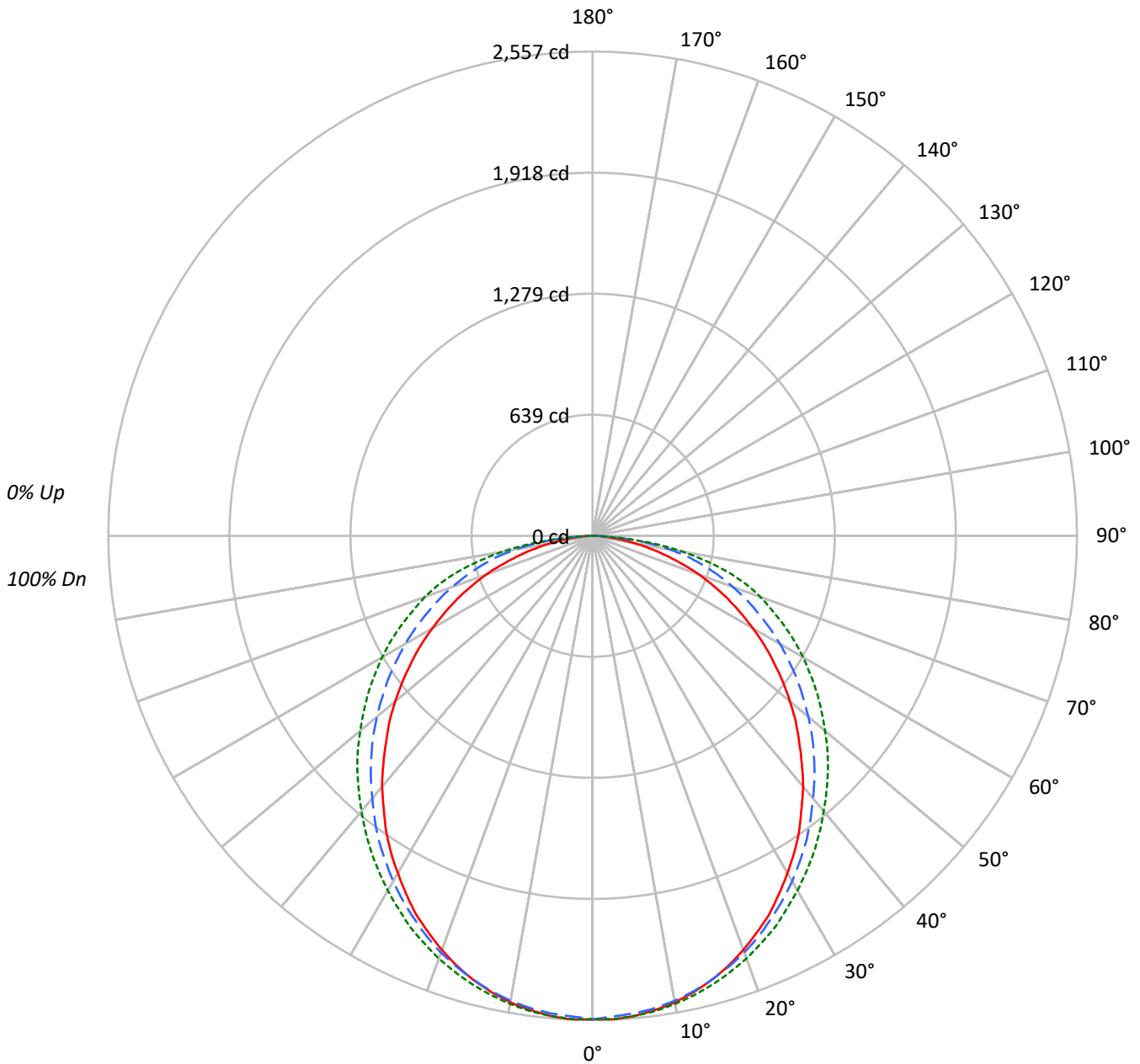
Lumens per Lamp: N/A
Luminaire Lumens: 7389.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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	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°	3604	3604	3604
5°	3606	3587	3606
10°	3586	3574	3598
15°	3549	3547	3583
20°	3496	3518	3568
25°	3435	3474	3550
30°	3352	3434	3525
35°	3276	3389	3511
40°	3187	3334	3497
45°	3078	3300	3507
50°	2985	3263	3517
55°	2876	3240	3557
60°	2757	3225	3622
65°	2627	3214	3716
70°	2473	3246	3886
75°	2175	3313	4042
80°	1815	3338	3900
85°	1297	2860	2899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.4	3.3
10°-20°	687.5	9.3
20°-30°	1031.4	14.0
30°-40°	1231.4	16.7
40°-50°	1275.5	17.3
50°-60°	1174.3	15.9
60°-70°	947.2	12.8
70°-80°	618.9	8.4
80°-90°	181.4	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°	1960.3	26.5
0°-40°	3191.7	43.2
0°-60°	5641.5	76.3
0°-90°	7389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2553	2553	2553	2553	2553	
5°	2545	2543	2532	2546	2545	242
15°	2429	2429	2428	2452	2452	684
25°	2206	2211	2231	2272	2280	1014
35°	1902	1918	1967	2021	2038	1188
45°	1542	1581	1653	1727	1757	1192
55°	1169	1219	1317	1414	1446	1046
65°	787	840	962	1072	1113	778
75°	399	474	608	713	741	426
85°	80	138	177	187	179	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2553.3	2553.3	2553.3	2553.3	2553.3
2.5°	2556.9	2553.3	2540.2	2555.7	2554.5
5°	2545.0	2542.6	2531.9	2546.2	2545.0
7.5°	2525.9	2524.7	2516.4	2531.9	2531.9
10°	2502.1	2499.7	2493.7	2511.6	2510.4
12.5°	2468.7	2467.5	2463.9	2485.4	2484.2
15°	2429.1	2429.1	2427.9	2452.0	2452.0
17.5°	2381.4	2382.6	2387.4	2414.8	2416.0
20°	2327.8	2332.6	2342.1	2373.1	2375.5
22.5°	2266.8	2276.3	2289.4	2324.2	2327.8
25°	2206.0	2210.8	2231.0	2271.6	2279.9
27.5°	2131.9	2144.0	2170.3	2212.0	2220.3
30°	2056.8	2073.5	2106.9	2150.0	2163.1
32.5°	1982.7	1997.2	2036.5	2085.4	2100.9
35°	1901.6	1918.3	1967.2	2021.1	2037.7
37.5°	1812.0	1838.2	1889.7	1951.7	1969.6
40°	1729.8	1753.6	1809.6	1879.0	1898.1
42.5°	1635.4	1665.2	1733.4	1803.7	1827.5
45°	1542.2	1580.6	1653.3	1727.4	1757.2
47.5°	1455.2	1486.2	1572.2	1655.6	1681.9
50°	1359.6	1395.4	1486.2	1574.6	1602.0
52.5°	1265.5	1308.4	1400.1	1493.3	1523.1
55°	1168.7	1218.7	1316.7	1413.5	1445.7
57.5°	1075.5	1125.8	1227.1	1329.8	1363.2
60°	976.6	1030.2	1142.5	1241.4	1283.3
62.5°	881.0	934.6	1052.8	1160.3	1199.7
65°	786.6	840.5	962.3	1071.9	1112.7
67.5°	688.9	747.3	877.4	983.7	1023.0
70°	599.2	655.3	786.6	900.0	941.8
72.5°	496.5	563.5	697.2	809.2	848.8
75°	398.8	473.9	607.6	712.7	741.3
77.5°	308.0	383.3	516.8	595.7	613.5
80°	223.3	299.6	410.7	465.5	479.8
82.5°	144.4	223.3	297.2	334.2	338.9
85°	80.1	138.5	176.6	187.4	179.0
87.5°	28.6	52.4	51.2	41.7	33.4
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)