

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: P880973

Luminaire Tested: **24CZ2-65VHE-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: P880973  
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: 24CZ2-65VHE-B2750-W2D-3000K  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

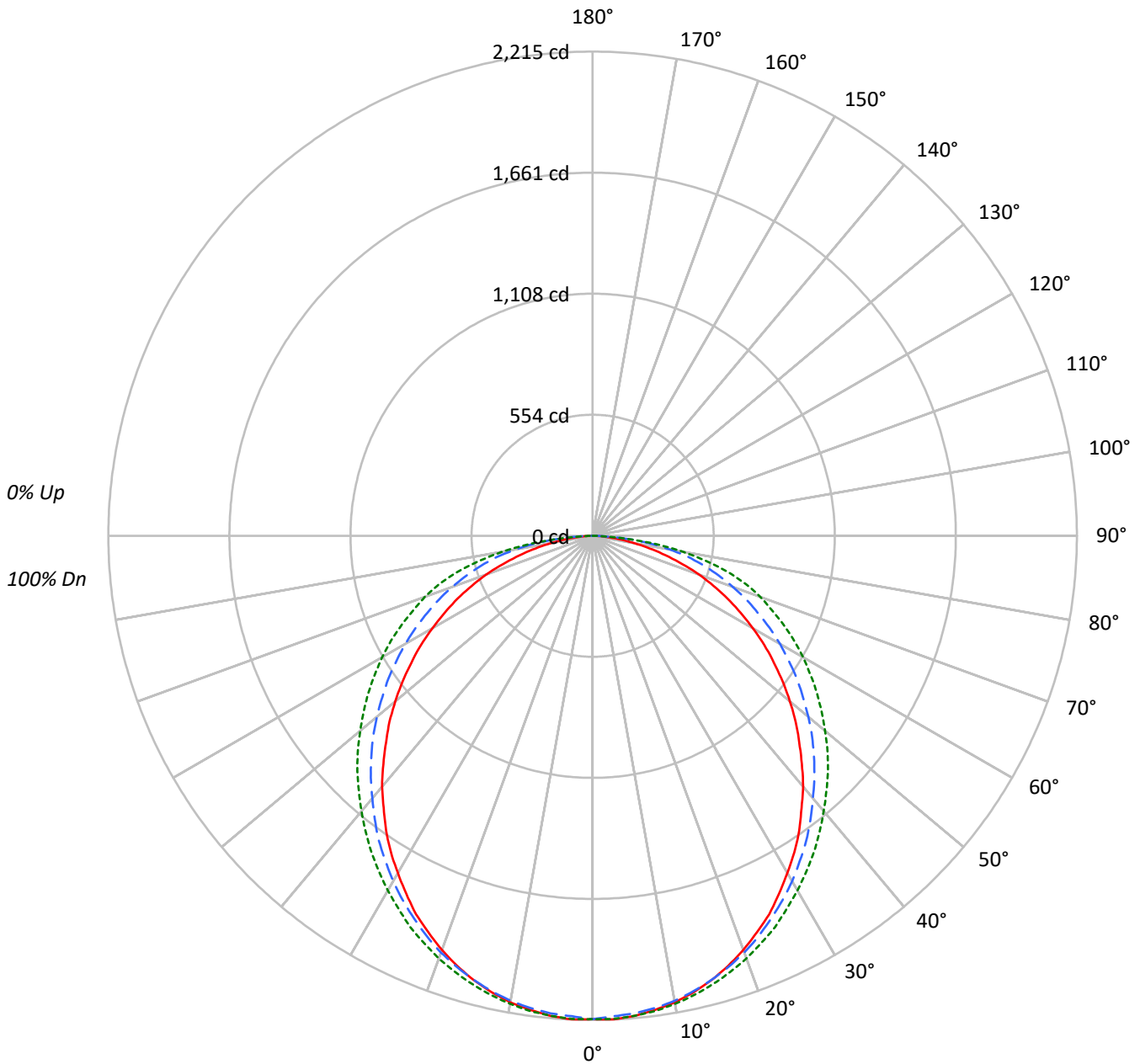
Lumens per Lamp: N/A  
Luminaire Lumens: 6400.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 51  
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°	3121	3121	3121
5°	3123	3107	3123
10°	3106	3095	3116
15°	3074	3073	3103
20°	3028	3047	3090
25°	2975	3009	3075
30°	2903	2974	3053
35°	2838	2936	3041
40°	2760	2888	3029
45°	2666	2858	3038
50°	2586	2826	3047
55°	2491	2806	3081
60°	2387	2793	3138
65°	2275	2783	3218
70°	2142	2811	3366
75°	1883	2870	3501
80°	1572	2891	3378
85°	1124	2478	2510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.1	3.3
10°-20°	595.5	9.3
20°-30°	893.4	14.0
30°-40°	1066.6	16.7
40°-50°	1104.8	17.3
50°-60°	1017.1	15.9
60°-70°	820.4	12.8
70°-80°	536.0	8.4
80°-90°	157.1	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°	1697.9	26.5
0°-40°	2764.5	43.2
0°-60°	4886.4	76.3
0°-90°	6400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2212	2212	2212	2212	2212	
5°	2204	2202	2193	2205	2204	209
15°	2104	2104	2103	2124	2124	593
25°	1911	1915	1932	1968	1975	879
35°	1647	1662	1704	1750	1765	1029
45°	1336	1369	1432	1496	1522	1033
55°	1012	1056	1140	1224	1252	906
65°	681	728	834	928	964	674
75°	345	410	526	617	642	369
85°	69	120	153	162	155	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2211.6	2211.6	2211.6	2211.6	2211.6
2.5°	2214.6	2211.6	2200.2	2213.6	2212.6
5°	2204.3	2202.3	2193.0	2205.4	2204.3
7.5°	2187.8	2186.8	2179.6	2193.0	2193.0
10°	2167.2	2165.1	2159.9	2175.4	2174.4
12.5°	2138.3	2137.2	2134.1	2152.7	2151.7
15°	2104.0	2104.0	2103.0	2123.8	2123.8
17.5°	2062.7	2063.7	2067.9	2091.6	2092.6
20°	2016.2	2020.4	2028.6	2055.5	2057.5
22.5°	1963.4	1971.7	1983.0	2013.1	2016.2
25°	1910.7	1914.9	1932.4	1967.5	1974.7
27.5°	1846.5	1857.1	1879.8	1915.9	1923.1
30°	1781.5	1796.0	1824.9	1862.2	1873.6
32.5°	1717.3	1729.9	1764.0	1806.3	1819.7
35°	1647.1	1661.6	1703.9	1750.5	1765.0
37.5°	1569.5	1592.2	1636.8	1690.5	1705.9
40°	1498.2	1518.9	1567.4	1627.5	1644.0
42.5°	1416.5	1442.3	1501.3	1562.2	1582.9
45°	1335.8	1369.0	1432.0	1496.2	1522.0
47.5°	1260.4	1287.3	1361.8	1434.0	1456.8
50°	1177.6	1208.6	1287.3	1363.8	1387.6
52.5°	1096.1	1133.2	1212.7	1293.4	1319.3
55°	1012.3	1055.6	1140.5	1224.3	1252.2
57.5°	931.5	975.1	1062.8	1151.8	1180.7
60°	845.8	892.3	989.5	1075.2	1111.6
62.5°	763.1	809.5	911.9	1005.0	1039.1
65°	681.3	728.0	833.5	928.4	963.7
67.5°	596.7	647.2	760.0	852.0	886.1
70°	519.0	567.5	681.3	779.6	815.7
72.5°	430.0	488.1	603.9	700.9	735.2
75°	345.4	410.4	526.3	617.3	642.1
77.5°	266.7	332.0	447.6	515.9	531.4
80°	193.4	259.5	355.7	403.2	415.6
82.5°	125.1	193.4	257.5	289.5	293.6
85°	69.4	120.0	153.0	162.3	155.0
87.5°	24.8	45.4	44.4	36.1	28.9
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)