

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: P881001

Luminaire Tested: **24CZ2-70VHE-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: P881001  
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: 24CZ2-70VHE-B2750-W2D-5000K  
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

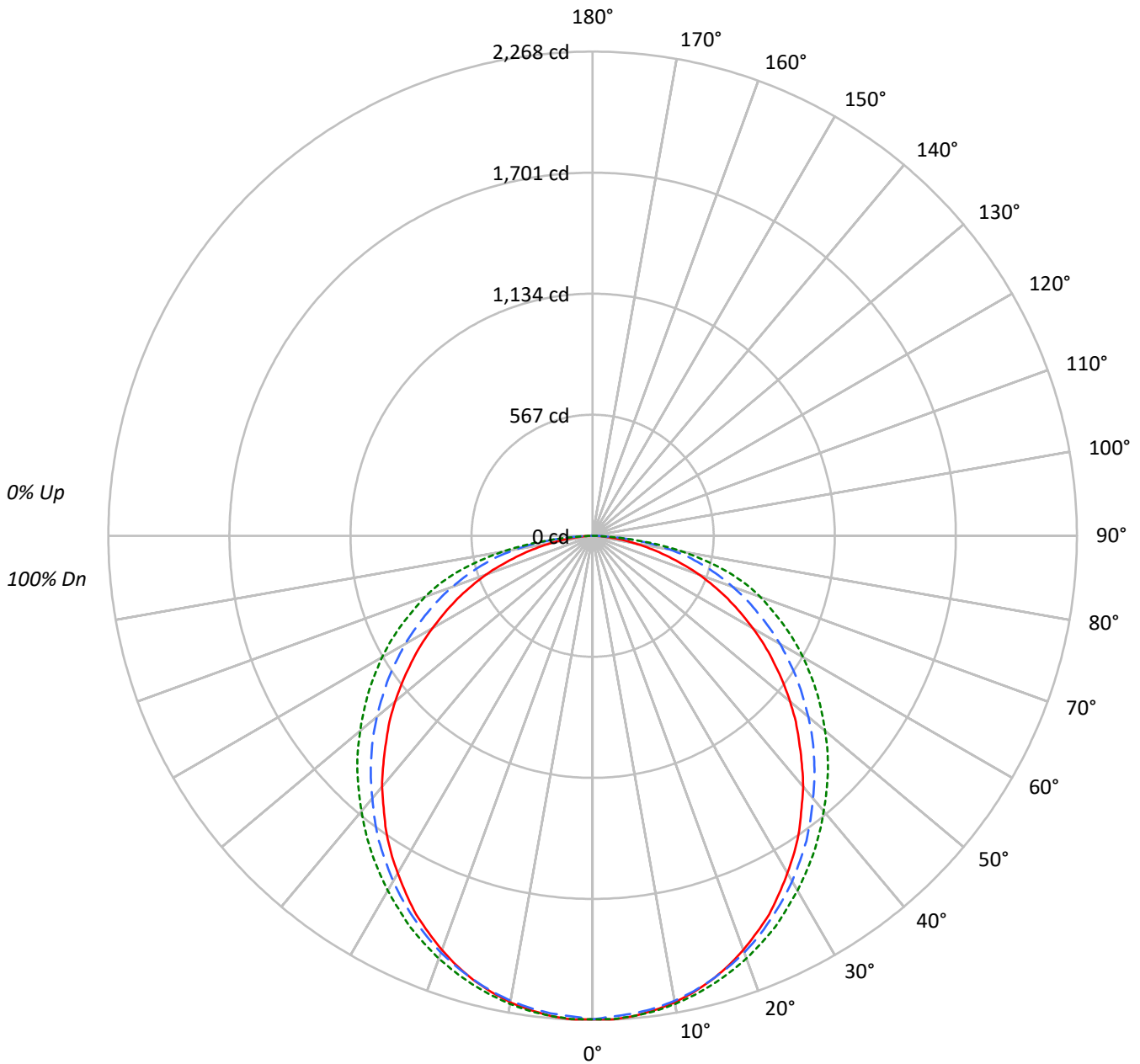
Lumens per Lamp: N/A  
Luminaire Lumens: 6554.0 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 56  
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°	3196	3196	3196
5°	3198	3182	3198
10°	3181	3170	3191
15°	3148	3147	3178
20°	3101	3120	3165
25°	3047	3082	3149
30°	2973	3046	3127
35°	2906	3006	3114
40°	2827	2957	3102
45°	2730	2927	3111
50°	2648	2894	3120
55°	2551	2874	3155
60°	2445	2861	3213
65°	2330	2850	3296
70°	2193	2879	3447
75°	1929	2939	3585
80°	1610	2961	3459
85°	1150	2537	2571



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.1	3.3
10°-20°	609.8	9.3
20°-30°	914.9	14.0
30°-40°	1092.3	16.7
40°-50°	1131.4	17.3
50°-60°	1041.5	15.9
60°-70°	840.2	12.8
70°-80°	548.9	8.4
80°-90°	160.9	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°	1738.8	26.5
0°-40°	2831.0	43.2
0°-60°	5003.9	76.3
0°-90°	6554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6554.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2265	2265	2265	2265	2265	
5°	2257	2255	2246	2258	2257	214
15°	2155	2155	2154	2175	2175	607
25°	1957	1961	1979	2015	2022	900
35°	1687	1702	1745	1793	1808	1054
45°	1368	1402	1466	1532	1559	1057
55°	1037	1081	1168	1254	1282	928
65°	698	746	854	951	987	690
75°	354	420	539	632	658	377
85°	71	123	157	166	159	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2264.8	2264.8	2264.8	2264.8	2264.8
2.5°	2267.9	2264.8	2253.1	2266.9	2265.8
5°	2257.4	2255.3	2245.7	2258.4	2257.4
7.5°	2240.5	2239.4	2232.0	2245.7	2245.7
10°	2219.3	2217.2	2211.9	2227.8	2226.7
12.5°	2189.7	2188.7	2185.5	2204.5	2203.5
15°	2154.6	2154.6	2153.6	2174.9	2174.9
17.5°	2112.3	2113.4	2117.6	2141.9	2143.0
20°	2064.8	2069.0	2077.4	2104.9	2107.0
22.5°	2010.6	2019.1	2030.7	2061.6	2064.8
25°	1956.7	1961.0	1978.9	2014.9	2022.3
27.5°	1891.0	1901.8	1925.0	1962.0	1969.4
30°	1824.4	1839.2	1868.8	1907.0	1918.7
32.5°	1758.6	1771.5	1806.4	1849.7	1863.5
35°	1686.7	1701.5	1744.9	1792.7	1807.5
37.5°	1607.2	1630.5	1676.2	1731.1	1747.0
40°	1534.3	1555.4	1605.1	1666.7	1683.6
42.5°	1450.6	1477.0	1537.5	1599.8	1621.0
45°	1367.9	1401.9	1466.4	1532.2	1558.6
47.5°	1290.7	1318.2	1394.5	1468.5	1491.8
50°	1206.0	1237.7	1318.2	1396.7	1421.0
52.5°	1122.4	1160.5	1241.9	1324.6	1351.0
55°	1036.6	1081.0	1167.9	1253.7	1282.3
57.5°	953.9	998.6	1088.4	1179.5	1209.1
60°	866.2	913.8	1013.4	1101.1	1138.3
62.5°	781.4	829.0	933.9	1029.2	1064.1
65°	697.7	745.5	853.5	950.8	986.9
67.5°	611.0	662.8	778.2	872.5	907.4
70°	531.5	581.2	697.7	798.3	835.3
72.5°	440.4	499.8	618.4	717.8	752.9
75°	353.7	420.3	538.9	632.2	657.5
77.5°	273.2	340.0	458.4	528.3	544.2
80°	198.1	265.8	364.3	412.9	425.6
82.5°	128.1	198.1	263.6	296.4	300.6
85°	71.0	122.8	156.7	166.2	158.8
87.5°	25.4	46.5	45.5	37.0	29.6
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)