

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: P881042

Luminaire Tested: **24CZ2-75VHE-SQR-B2750-W2D-2700K**

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: P881042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474669)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-75VHE-SQR-B2750-W2D-2700K  
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

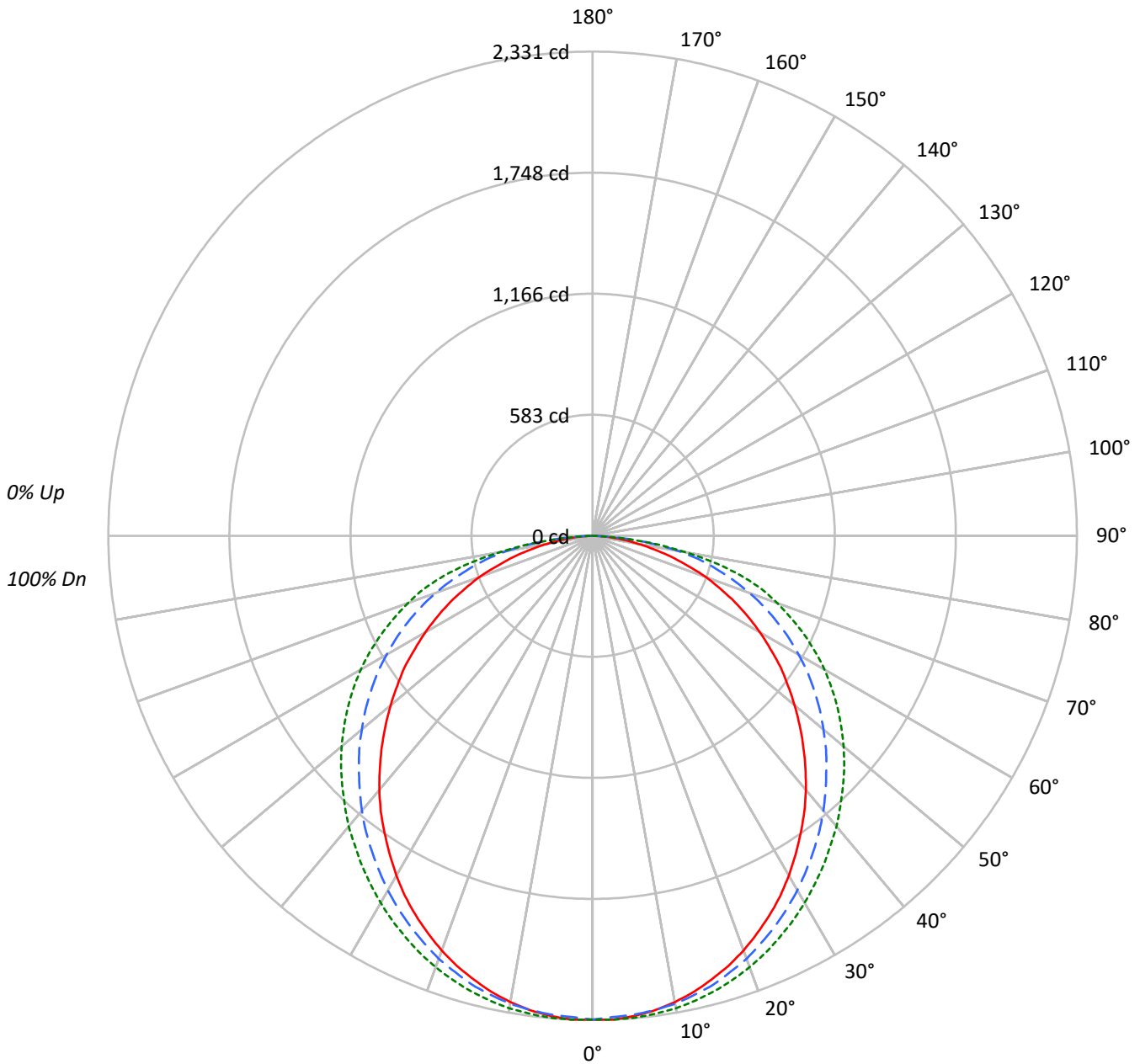
Lumens per Lamp: N/A  
Luminaire Lumens: 7091.0 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3287	3287	3287
5°	3287	3277	3300
10°	3267	3278	3310
15°	3231	3271	3316
20°	3190	3255	3319
25°	3138	3232	3320
30°	3078	3213	3325
35°	3008	3193	3338
40°	2943	3183	3365
45°	2863	3175	3401
50°	2786	3184	3462
55°	2721	3206	3540
60°	2628	3230	3639
65°	2523	3269	3749
70°	2394	3314	3899
75°	2144	3360	4028
80°	1805	3371	3654
85°	1339	2549	2403



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.7	3.1
10°-20°	632.6	8.9
20°-30°	957.6	13.5
30°-40°	1158.4	16.3
40°-50°	1222.8	17.2
50°-60°	1153.1	16.3
60°-70°	950.7	13.4
70°-80°	623.6	8.8
80°-90°	171.5	2.4
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°	1810.9	25.5
0°-40°	2969.3	41.9
0°-60°	5345.2	75.4
0°-90°	7091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7091.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2329	2329	2329	2329	2329	
5°	2320	2320	2313	2329	2329	220
15°	2211	2224	2238	2264	2269	624
25°	2015	2040	2076	2118	2132	928
35°	1746	1791	1853	1917	1937	1093
45°	1434	1499	1591	1675	1704	1107
55°	1106	1184	1303	1400	1439	985
65°	756	846	979	1083	1123	746
75°	393	494	616	714	739	415
85°	83	143	157	153	148	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2329.2	2329.2	2329.2	2329.2	2329.2
2.5°	2331.4	2329.2	2319.1	2332.5	2331.4
5°	2320.0	2320.0	2313.4	2329.2	2329.2
7.5°	2304.2	2305.4	2303.0	2321.2	2321.2
10°	2279.4	2283.9	2287.2	2307.7	2309.8
12.5°	2249.8	2257.9	2264.5	2289.5	2291.9
15°	2211.3	2223.8	2238.5	2264.5	2269.2
17.5°	2171.6	2186.5	2202.3	2236.4	2242.0
20°	2124.1	2141.1	2167.1	2201.2	2210.1
22.5°	2071.0	2094.6	2121.8	2162.6	2174.0
25°	2015.4	2040.3	2075.5	2118.5	2131.9
27.5°	1955.4	1984.7	2024.4	2074.3	2088.9
30°	1888.6	1922.4	1971.3	2024.4	2040.3
32.5°	1818.2	1857.9	1912.2	1971.3	1989.2
35°	1745.9	1791.0	1853.4	1916.9	1937.2
37.5°	1674.3	1719.6	1793.3	1860.2	1879.4
40°	1597.2	1647.1	1727.7	1799.0	1826.2
42.5°	1515.7	1574.8	1659.6	1739.0	1765.0
45°	1434.2	1498.7	1590.6	1675.4	1703.8
47.5°	1351.5	1422.9	1523.8	1609.8	1642.6
50°	1268.8	1344.7	1450.0	1542.9	1576.9
52.5°	1184.9	1264.3	1378.7	1477.2	1507.9
55°	1105.8	1183.8	1302.8	1400.2	1438.7
57.5°	1013.9	1102.2	1227.9	1326.7	1364.0
60°	931.2	1017.4	1144.3	1248.5	1289.1
62.5°	841.6	930.0	1063.7	1167.9	1207.6
65°	755.6	846.3	978.9	1083.1	1122.6
67.5°	662.8	758.0	893.8	994.7	1033.2
70°	580.1	669.6	803.1	906.4	944.9
72.5°	479.2	581.2	709.1	811.1	853.0
75°	393.2	493.8	616.2	713.8	738.6
77.5°	302.4	403.3	524.5	587.9	604.9
80°	222.1	317.1	414.7	448.7	449.6
82.5°	149.6	233.4	289.0	306.0	303.6
85°	82.7	142.7	157.4	152.9	148.4
87.5°	34.0	47.5	38.5	27.2	21.5
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)