

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: P881032

Luminaire Tested: **24CZ2-75VHE-RDP-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: P881032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-75VHE-RDP-B2750-W2D-2700K  
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

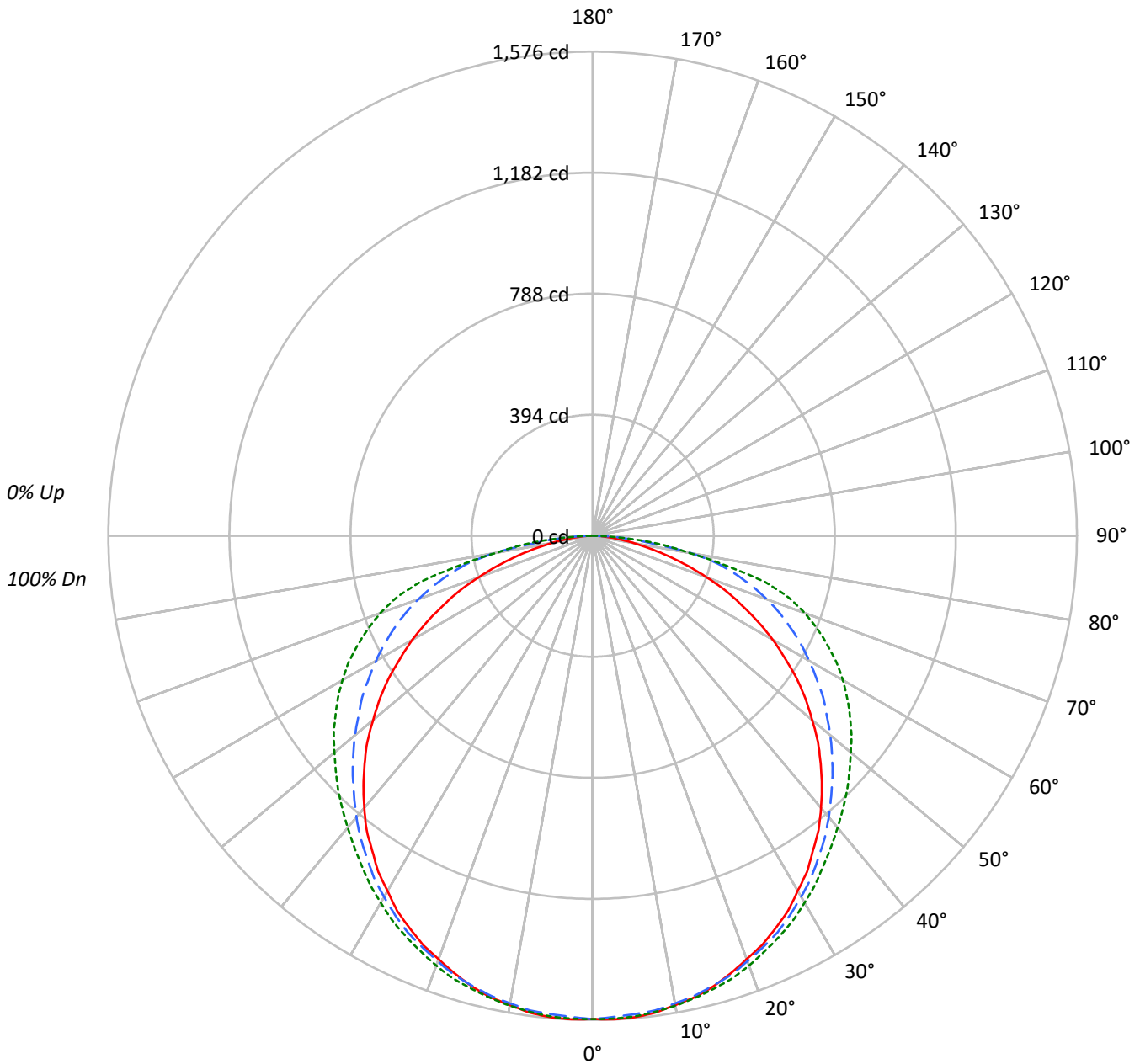
Lumens per Lamp: N/A  
Luminaire Lumens: 5002.0 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

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

	0°	45°	90°
0°	2220	2220	2220
5°	2229	2214	2225
10°	2222	2215	2226
15°	2218	2215	2229
20°	2202	2213	2236
25°	2195	2218	2241
30°	2175	2212	2248
35°	2154	2206	2257
40°	2131	2203	2285
45°	2095	2204	2337
50°	2048	2217	2408
55°	1996	2253	2515
60°	1912	2297	2654
65°	1790	2378	2817
70°	1627	2488	3030
75°	1379	2625	3167
80°	1089	2641	2560
85°	805	2008	2252



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.2	3.0
10°-20°	429.4	8.6
20°-30°	656.7	13.1
30°-40°	802.8	16.0
40°-50°	855.6	17.1
50°-60°	818.1	16.4
60°-70°	693.0	13.9
70°-80°	465.8	9.3
80°-90°	131.4	2.6
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°	1235.3	24.7
0°-40°	2038.1	40.7
0°-60°	3711.8	74.2
0°-90°	5002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5002.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1573	1573	1573	1573	1573	
5°	1573	1571	1563	1571	1571	149
15°	1518	1518	1516	1528	1526	428
25°	1409	1414	1424	1436	1439	649
35°	1250	1260	1280	1305	1310	783
45°	1050	1067	1104	1151	1171	809
55°	811	841	916	988	1022	723
65°	536	591	712	806	844	532
75°	253	345	481	563	581	271
85°	50	102	124	134	139	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1573.1	1573.1	1573.1	1573.1	1573.1
2.5°	1575.5	1575.5	1568.0	1573.1	1573.1
5°	1573.1	1570.7	1563.1	1570.7	1570.7
7.5°	1565.6	1563.1	1558.1	1565.6	1563.1
10°	1550.8	1550.8	1545.7	1553.2	1553.2
12.5°	1538.2	1535.8	1533.3	1543.3	1540.9
15°	1518.3	1518.3	1515.9	1528.3	1525.8
17.5°	1493.6	1496.0	1498.7	1508.6	1511.1
20°	1466.2	1471.3	1473.7	1488.8	1488.8
22.5°	1441.5	1443.9	1449.0	1463.8	1463.8
25°	1409.3	1414.1	1424.1	1436.4	1439.1
27.5°	1376.8	1379.5	1391.9	1409.3	1411.7
30°	1334.7	1342.2	1357.2	1376.8	1379.5
32.5°	1297.6	1304.9	1322.3	1342.2	1347.3
35°	1250.4	1260.3	1280.2	1304.9	1310.0
37.5°	1208.2	1215.5	1240.4	1267.8	1275.1
40°	1156.4	1170.9	1195.9	1228.1	1240.4
42.5°	1104.0	1119.1	1148.9	1190.8	1205.5
45°	1049.5	1067.0	1104.0	1151.3	1170.9
47.5°	995.0	1014.9	1057.0	1111.5	1133.8
50°	932.7	957.7	1009.8	1071.8	1096.8
52.5°	873.4	903.2	960.1	1029.7	1061.9
55°	811.1	840.9	915.5	987.5	1022.1
57.5°	741.8	781.3	863.5	945.3	982.4
60°	677.4	714.5	813.8	903.2	940.3
62.5°	607.9	657.5	764.1	858.4	895.7
65°	535.9	590.7	712.0	806.3	843.6
67.5°	471.5	531.1	660.0	754.2	791.3
70°	394.4	468.8	603.0	697.0	734.3
72.5°	322.5	404.4	543.4	635.2	669.9
75°	252.9	344.8	481.4	563.3	580.7
77.5°	188.7	285.2	416.7	451.6	439.2
80°	134.0	228.5	324.9	307.4	315.0
82.5°	87.0	173.7	201.1	228.5	235.5
85°	49.7	101.8	124.0	134.0	139.1
87.5°	22.3	37.3	49.7	49.7	47.2
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)