

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: P732306

Luminaire Tested: **24CZ2-50-SQR-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-50-SQR-B2750-W2D-2700K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

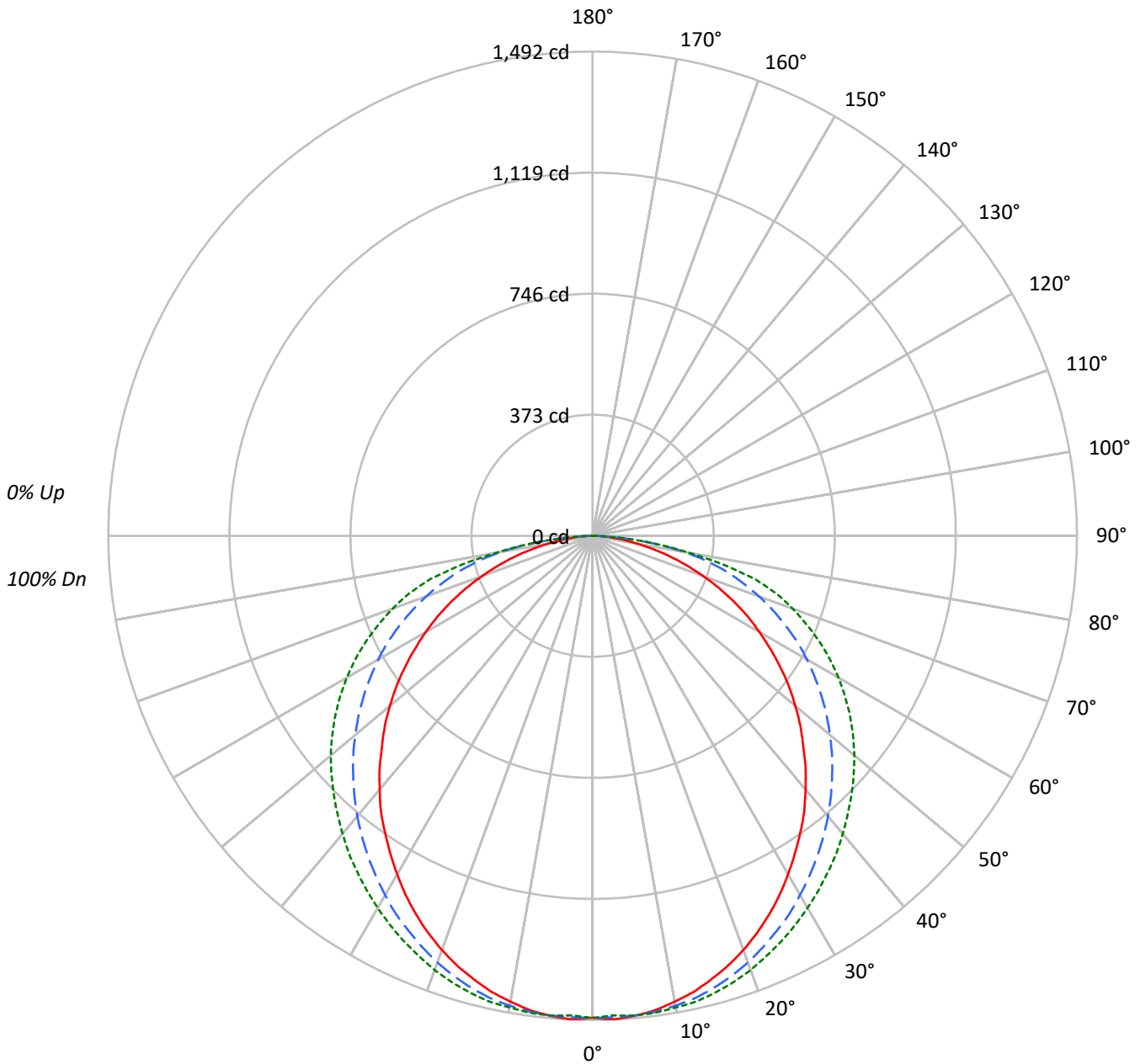
Lumens per Lamp: N/A  
Luminaire Lumens: 4647.0 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 40  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P732306

CATALOG NUMBER: 24CZ2-50-SQR-B2750-W2D-2700K

### 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	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

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

	0°	45°	90°
0°	2096	2096	2096
5°	2104	2102	2102
10°	2089	2107	2116
15°	2067	2108	2130
20°	2040	2102	2139
25°	2005	2091	2146
30°	1963	2083	2158
35°	1922	2078	2178
40°	1880	2078	2208
45°	1831	2083	2251
50°	1789	2096	2312
55°	1737	2118	2382
60°	1676	2153	2469
65°	1604	2193	2573
70°	1488	2248	2704
75°	1347	2326	2828
80°	1135	2333	2431
85°	868	1763	1763



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.0	3.0
10°-20°	405.7	8.7
20°-30°	616.2	13.3
30°-40°	749.5	16.1
40°-50°	798.0	17.2
50°-60°	760.1	16.4
60°-70°	635.6	13.7
70°-80°	423.8	9.1
80°-90°	117.2	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°	1162.9	25.0
0°-40°	1912.4	41.2
0°-60°	3470.4	74.7
0°-90°	4647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4647.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1485	1476	1484	1484	1484	141
15°	1415	1418	1442	1453	1458	399
25°	1288	1304	1343	1366	1378	593
35°	1116	1148	1206	1246	1264	698
45°	918	967	1043	1102	1128	709
55°	706	767	861	936	968	631
65°	480	551	657	738	770	474
75°	247	325	427	499	519	262
85°	54	100	109	108	109	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1491.5	1480.7	1485.3	1485.3	1479.3
5°	1485.3	1476.2	1483.9	1483.9	1483.9
7.5°	1474.8	1467.0	1479.3	1482.3	1482.3
10°	1457.8	1454.8	1470.2	1474.8	1476.2
12.5°	1439.5	1437.9	1459.4	1465.4	1470.2
15°	1414.7	1417.9	1442.4	1453.2	1457.8
17.5°	1388.8	1394.8	1422.5	1437.9	1442.4
20°	1358.1	1367.3	1399.6	1414.7	1424.1
22.5°	1324.4	1338.1	1371.9	1390.2	1401.0
25°	1287.5	1304.2	1342.7	1365.7	1378.0
27.5°	1247.6	1269.1	1313.6	1339.5	1351.9
30°	1204.5	1229.1	1278.3	1309.0	1324.4
32.5°	1160.1	1189.2	1243.0	1276.7	1295.1
35°	1115.6	1147.9	1206.1	1246.0	1264.4
37.5°	1071.1	1103.2	1167.8	1210.7	1233.8
40°	1020.5	1058.8	1128.0	1175.4	1198.6
42.5°	971.4	1012.7	1086.5	1138.5	1163.3
45°	917.6	966.8	1043.4	1101.8	1128.0
47.5°	868.5	917.6	1000.5	1061.9	1091.1
50°	814.9	866.9	954.5	1022.1	1052.8
52.5°	762.6	816.5	908.4	980.6	1011.3
55°	706.0	767.2	860.9	936.1	968.2
57.5°	649.1	715.1	811.7	890.0	922.3
60°	593.9	661.3	762.6	841.0	874.7
62.5°	538.6	606.1	712.0	791.7	824.0
65°	480.2	550.8	656.7	738.1	770.4
67.5°	422.0	495.6	601.5	682.8	713.5
70°	360.6	438.9	544.8	624.6	655.3
72.5°	303.9	382.1	486.4	564.8	593.9
75°	247.1	325.3	426.6	498.8	518.7
77.5°	191.8	270.0	360.6	408.2	412.8
80°	139.6	213.4	287.0	300.7	299.1
82.5°	93.5	159.5	198.0	199.4	204.0
85°	53.6	99.7	108.9	107.5	108.9
87.5°	21.5	35.3	30.7	22.9	22.9
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)