

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: P732331

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732331  
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: 24CZ2-50HE-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**

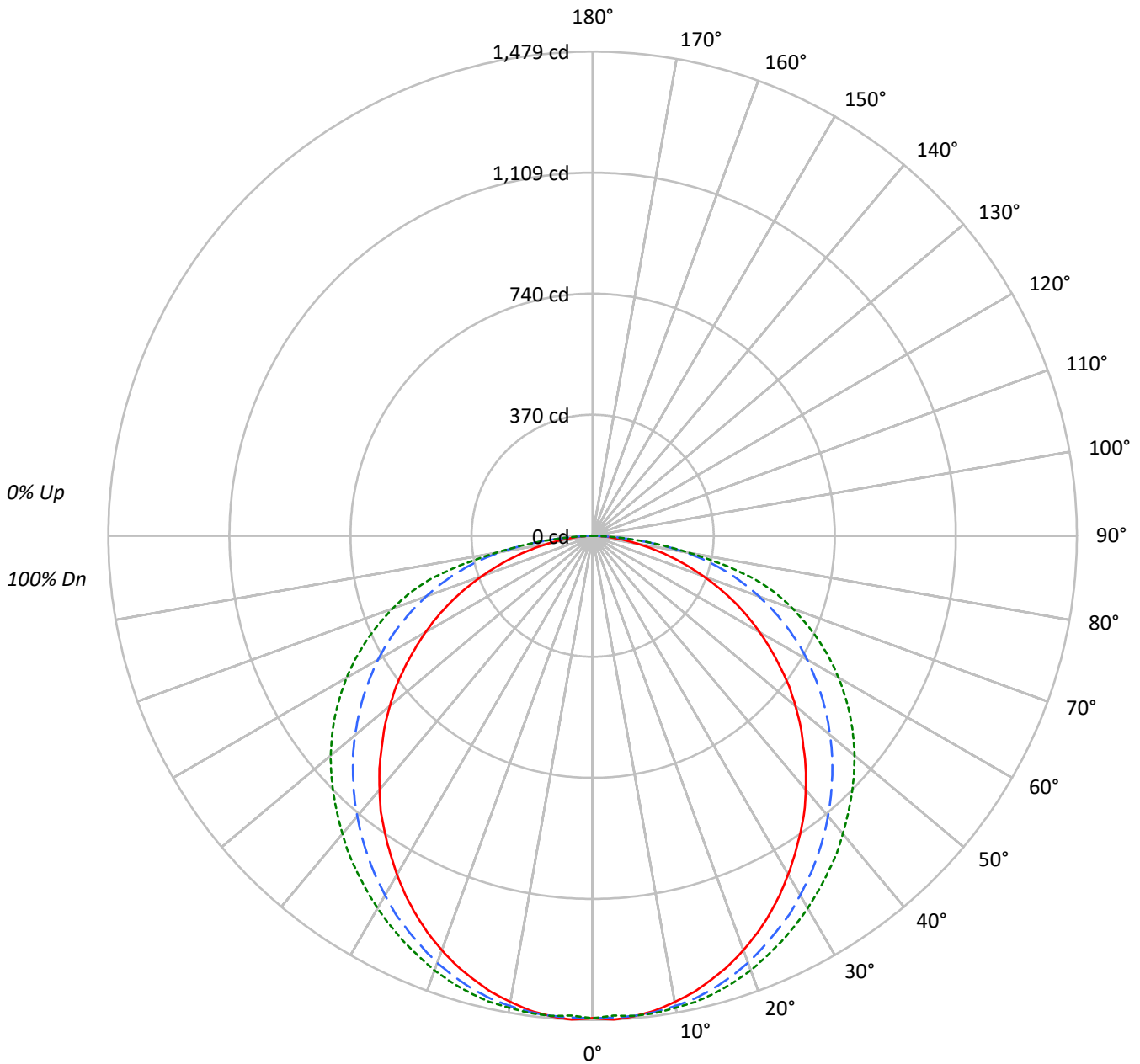
Lumens per Lamp: N/A  
Luminaire Lumens: 4609.0 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
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

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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	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°	2079	2079	2079
5°	2087	2085	2085
10°	2072	2090	2098
15°	2050	2090	2113
20°	2023	2085	2121
25°	1989	2074	2128
30°	1947	2066	2141
35°	1906	2061	2161
40°	1865	2061	2190
45°	1817	2066	2233
50°	1775	2078	2293
55°	1723	2101	2363
60°	1663	2135	2449
65°	1591	2175	2552
70°	1476	2230	2682
75°	1337	2307	2806
80°	1126	2313	2411
85°	861	1749	1749



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.8	3.0
10°-20°	402.4	8.7
20°-30°	611.2	13.3
30°-40°	743.4	16.1
40°-50°	791.5	17.2
50°-60°	753.8	16.4
60°-70°	630.4	13.7
70°-80°	420.3	9.1
80°-90°	116.3	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°	1153.4	25.0
0°-40°	1896.7	41.2
0°-60°	3442.0	74.7
0°-90°	4609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4609.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1473	1464	1472	1472	1472	140
15°	1403	1406	1431	1441	1446	396
25°	1277	1294	1332	1354	1367	588
35°	1106	1138	1196	1236	1254	692
45°	910	959	1035	1093	1119	704
55°	700	761	854	928	960	626
65°	476	546	651	732	764	471
75°	245	323	423	495	514	260
85°	53	99	108	107	108	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1473.2	1473.2	1473.2	1473.2	1473.2
2.5°	1479.3	1468.6	1473.2	1473.2	1467.2
5°	1473.2	1464.1	1471.8	1471.8	1471.8
7.5°	1462.7	1455.0	1467.2	1470.2	1470.2
10°	1445.9	1442.9	1458.1	1462.7	1464.1
12.5°	1427.7	1426.1	1447.5	1453.4	1458.1
15°	1403.2	1406.3	1430.7	1441.3	1445.9
17.5°	1377.4	1383.4	1410.9	1426.1	1430.7
20°	1347.0	1356.1	1388.1	1403.2	1412.5
22.5°	1313.6	1327.2	1360.6	1378.8	1389.5
25°	1277.0	1293.6	1331.8	1354.5	1366.8
27.5°	1237.4	1258.8	1302.9	1328.6	1340.9
30°	1194.7	1219.0	1267.9	1298.3	1313.6
32.5°	1150.6	1179.5	1232.9	1266.3	1284.5
35°	1106.5	1138.5	1196.3	1235.8	1254.0
37.5°	1062.4	1094.2	1158.3	1200.8	1223.8
40°	1012.1	1050.1	1118.7	1165.8	1188.8
42.5°	963.5	1004.4	1077.6	1129.2	1153.7
45°	910.1	958.9	1034.9	1092.8	1118.7
47.5°	861.4	910.1	992.3	1053.3	1082.1
50°	808.2	859.8	946.6	1013.7	1044.2
52.5°	756.4	809.8	901.0	972.6	1003.0
55°	700.2	760.9	853.9	928.5	960.3
57.5°	643.8	709.3	805.0	882.8	914.8
60°	589.0	655.9	756.4	834.1	867.5
62.5°	534.2	601.1	706.1	785.2	817.3
65°	476.3	546.3	651.3	732.0	764.1
67.5°	418.5	491.5	596.6	677.3	707.7
70°	357.6	435.3	540.4	619.5	650.0
72.5°	301.4	379.0	482.4	560.2	589.0
75°	245.1	322.6	423.1	494.7	514.5
77.5°	190.3	267.8	357.6	404.9	409.4
80°	138.5	211.6	284.6	298.3	296.7
82.5°	92.8	158.2	196.4	197.8	202.3
85°	53.2	98.9	108.0	106.6	108.0
87.5°	21.4	35.0	30.5	22.7	22.7
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)