

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: P732334

Luminaire Tested: **24CZ2-50HE-SQR-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732334  
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-4000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

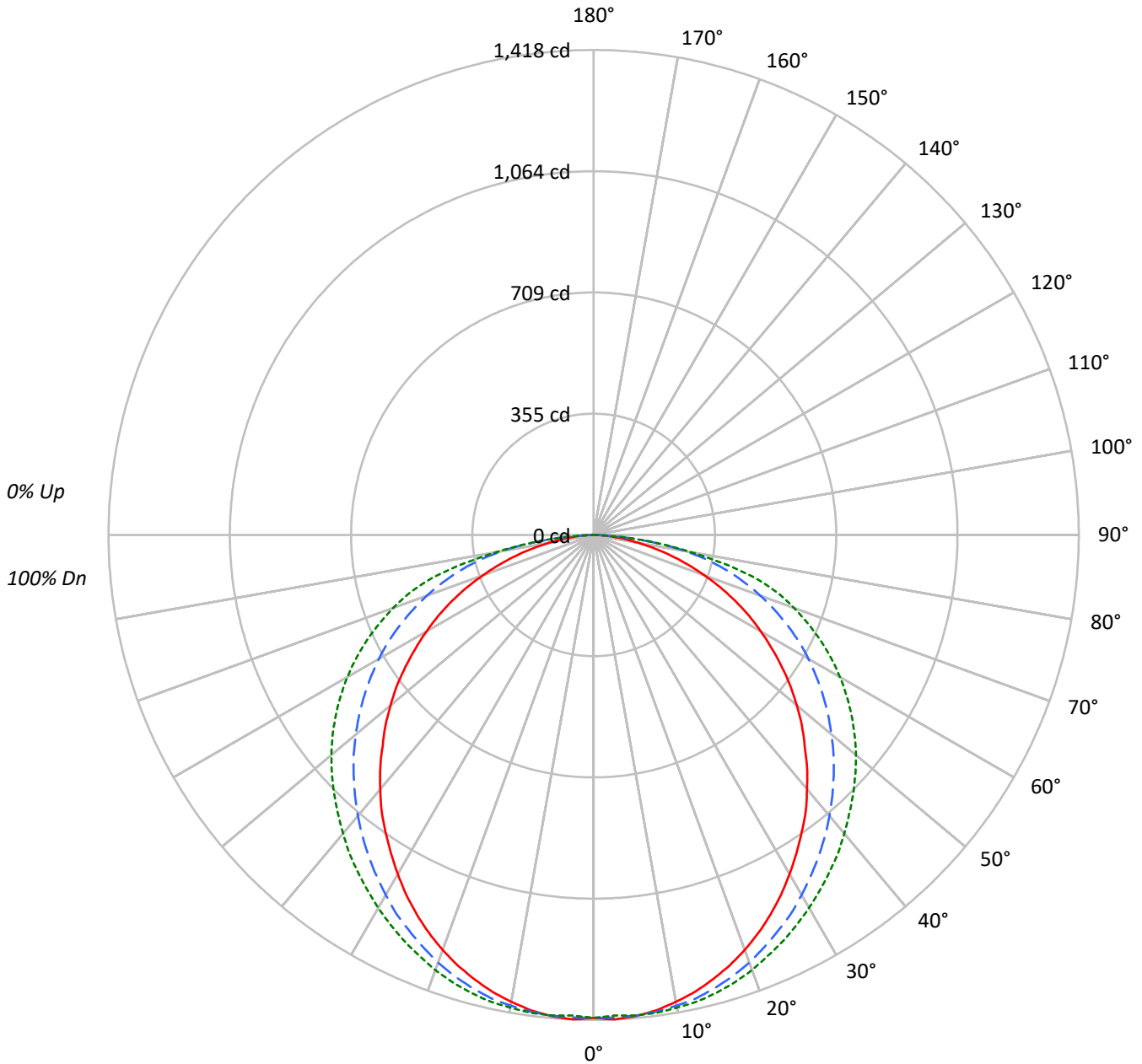
Lumens per Lamp: N/A  
Luminaire Lumens: 4418.0 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P732334

CATALOG NUMBER: 24CZ2-50HE-SQR-B2750-W2D-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732334

CATALOG NUMBER: 24CZ2-50HE-SQR-B2750-W2D-4000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82				82
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67				67
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56				56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47				47
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41				41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35				35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28				28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25				25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22				22

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

	0°	45°	90°
0°	1993	1993	1993
5°	2001	1999	1999
10°	1986	2003	2011
15°	1965	2004	2025
20°	1939	1998	2033
25°	1906	1988	2040
30°	1866	1981	2052
35°	1827	1976	2071
40°	1787	1976	2099
45°	1741	1980	2140
50°	1701	1992	2198
55°	1652	2014	2265
60°	1594	2046	2347
65°	1525	2085	2446
70°	1415	2138	2571
75°	1281	2212	2689
80°	1079	2217	2311
85°	826	1676	1676



TEST NUMBER: P732334

CATALOG NUMBER: 24CZ2-50HE-SQR-B2750-W2D-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.1	3.0
10°-20°	385.7	8.7
20°-30°	585.8	13.3
30°-40°	712.6	16.1
40°-50°	758.7	17.2
50°-60°	722.6	16.4
60°-70°	604.3	13.7
70°-80°	402.9	9.1
80°-90°	111.5	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°	1105.6	25.0
0°-40°	1818.1	41.2
0°-60°	3299.4	74.7
0°-90°	4418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4418.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1412	1403	1411	1411	1411	134
15°	1345	1348	1371	1382	1386	379
25°	1224	1240	1277	1298	1310	564
35°	1061	1091	1147	1185	1202	664
45°	872	919	992	1048	1072	674
55°	671	729	818	890	920	600
65°	457	524	624	702	732	451
75°	235	309	406	474	493	249
85°	51	95	104	102	104	62
90°	0	0	0	0	0	



TEST NUMBER: P732334

CATALOG NUMBER: 24CZ2-50HE-SQR-B2750-W2D-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1418.0	1407.8	1412.1	1412.1	1406.4
5°	1412.1	1403.4	1410.8	1410.8	1410.8
7.5°	1402.1	1394.7	1406.4	1409.3	1409.3
10°	1386.0	1383.1	1397.7	1402.1	1403.4
12.5°	1368.5	1367.0	1387.5	1393.2	1397.7
15°	1345.0	1348.0	1371.4	1381.6	1386.0
17.5°	1320.4	1326.1	1352.4	1367.0	1371.4
20°	1291.2	1299.9	1330.6	1345.0	1353.9
22.5°	1259.1	1272.2	1304.2	1321.7	1331.9
25°	1224.0	1240.0	1276.6	1298.4	1310.1
27.5°	1186.1	1206.6	1248.9	1273.5	1285.3
30°	1145.2	1168.5	1215.3	1244.5	1259.1
32.5°	1102.9	1130.6	1181.8	1213.8	1231.3
35°	1060.6	1091.3	1146.7	1184.6	1202.1
37.5°	1018.3	1048.9	1110.3	1151.1	1173.0
40°	970.2	1006.6	1072.4	1117.5	1139.5
42.5°	923.5	962.8	1032.9	1082.4	1105.9
45°	872.3	919.2	992.0	1047.5	1072.4
47.5°	825.7	872.3	951.2	1009.6	1037.3
50°	774.7	824.2	907.4	971.7	1000.9
52.5°	725.0	776.2	863.6	932.3	961.5
55°	671.2	729.4	818.5	890.0	920.5
57.5°	617.1	679.9	771.7	846.2	876.9
60°	564.6	628.7	725.0	799.5	831.6
62.5°	512.1	576.2	676.9	752.7	783.4
65°	456.6	523.7	624.3	701.7	732.4
67.5°	401.2	471.2	571.8	649.2	678.4
70°	342.8	417.3	518.0	593.8	623.0
72.5°	288.9	363.3	462.4	536.9	564.6
75°	234.9	309.2	405.6	474.2	493.1
77.5°	182.4	256.7	342.8	388.1	392.5
80°	132.7	202.9	272.8	285.9	284.4
82.5°	88.9	151.7	188.3	189.6	194.0
85°	51.0	94.8	103.5	102.2	103.5
87.5°	20.5	33.6	29.2	21.8	21.8
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)