

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: P843126

Luminaire Tested: **24CZ2-50HE-SQR-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843126
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-UNV-B50
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

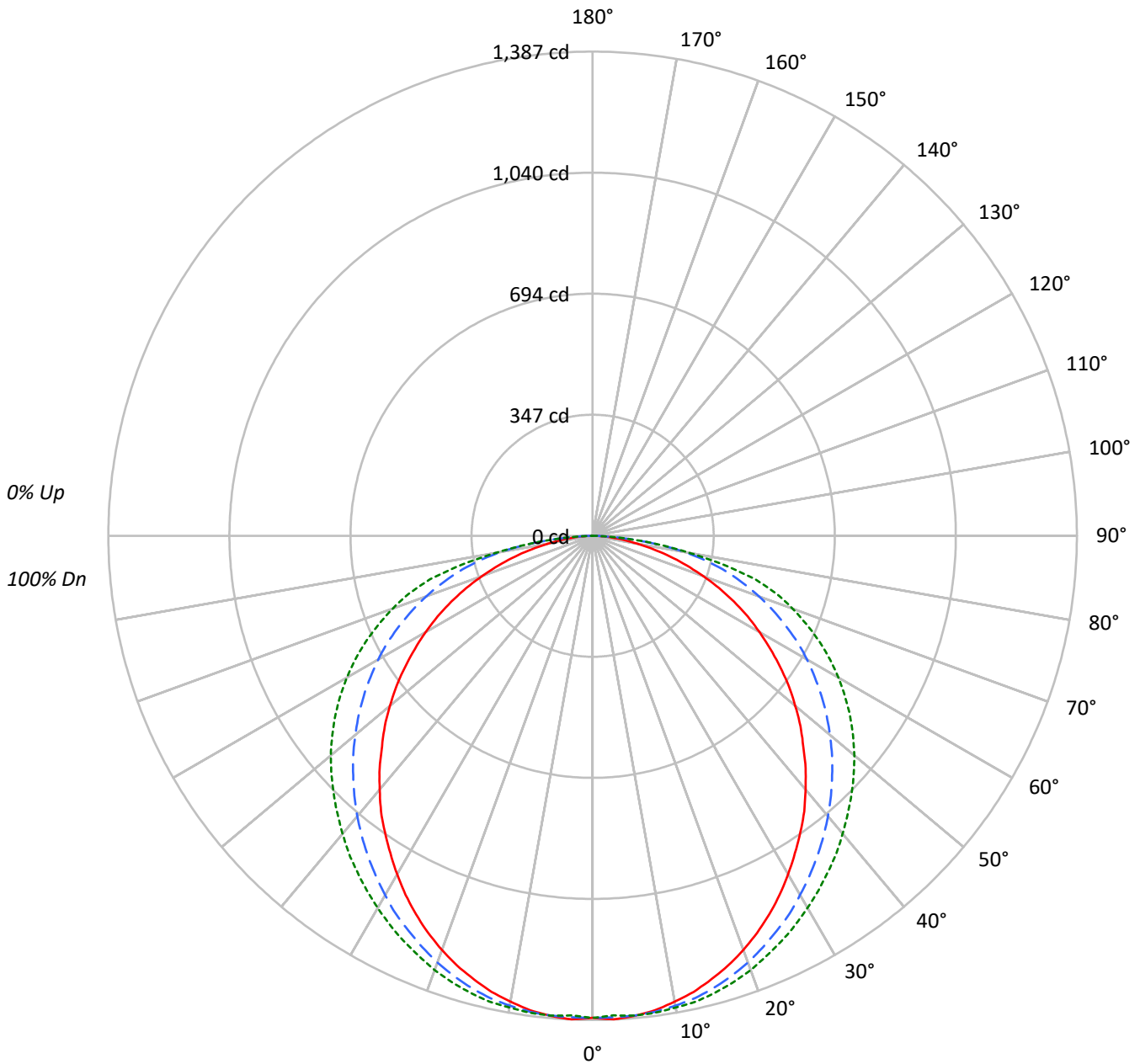
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4320.0 lumens
Efficiency: N/A
Efficacy: 116.8 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_{in}): 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: P843126
CATALOG NUMBER: 24CZ2-50HE-SQR-UNV-B50

Luminous Intensity Polar Plot





TEST NUMBER: P843126

CATALOG NUMBER: 24CZ2-50HE-SQR-UNV-B50

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°	1949	1949	1949
5°	1956	1954	1954
10°	1942	1959	1967
15°	1922	1959	1980
20°	1896	1954	1988
25°	1864	1944	1995
30°	1825	1937	2006
35°	1787	1932	2025
40°	1748	1932	2053
45°	1703	1936	2093
50°	1663	1948	2149
55°	1615	1969	2215
60°	1558	2001	2295
65°	1491	2039	2392
70°	1383	2090	2514
75°	1253	2163	2629
80°	1055	2168	2260
85°	808	1639	1639



TEST NUMBER: P843126

CATALOG NUMBER: 24CZ2-50HE-SQR-UNV-B50

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	3.0
10°-20°	377.1	8.7
20°-30°	572.8	13.3
30°-40°	696.8	16.1
40°-50°	741.8	17.2
50°-60°	706.6	16.4
60°-70°	590.8	13.7
70°-80°	394.0	9.1
80°-90°	109.0	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°	1081.0	25.0
0°-40°	1777.8	41.2
0°-60°	3226.2	74.7
0°-90°	4320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1381	1381	1381	1381	1381	
5°	1381	1372	1380	1380	1380	131
15°	1315	1318	1341	1351	1355	371
25°	1197	1212	1248	1270	1281	551
35°	1037	1067	1121	1158	1175	649
45°	853	899	970	1024	1049	659
55°	656	713	800	870	900	587
65°	446	512	610	686	716	441
75°	230	302	397	464	482	243
85°	50	93	101	100	101	60
90°	0	0	0	0	0	



TEST NUMBER: P843126

CATALOG NUMBER: 24CZ2-50HE-SQR-UNV-B50

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1380.8	1380.8	1380.8	1380.8	1380.8
2.5°	1386.6	1376.5	1380.8	1380.8	1375.2
5°	1380.8	1372.3	1379.5	1379.5	1379.5
7.5°	1371.0	1363.8	1375.2	1378.0	1378.0
10°	1355.2	1352.4	1366.7	1371.0	1372.3
12.5°	1338.2	1336.7	1356.7	1362.3	1366.7
15°	1315.2	1318.1	1340.9	1351.0	1355.2
17.5°	1291.1	1296.6	1322.4	1336.7	1340.9
20°	1262.5	1271.1	1301.1	1315.2	1323.9
22.5°	1231.2	1244.0	1275.3	1292.4	1302.4
25°	1196.9	1212.5	1248.3	1269.6	1281.1
27.5°	1159.8	1179.8	1221.2	1245.3	1256.8
30°	1119.8	1142.6	1188.4	1216.9	1231.2
32.5°	1078.4	1105.5	1155.6	1186.9	1203.9
35°	1037.1	1067.1	1121.3	1158.3	1175.4
37.5°	995.7	1025.6	1085.7	1125.5	1147.0
40°	948.7	984.3	1048.6	1092.7	1114.2
42.5°	903.0	941.4	1010.0	1058.4	1081.4
45°	853.0	898.8	970.0	1024.3	1048.6
47.5°	807.4	853.0	930.1	987.2	1014.3
50°	757.5	805.9	887.3	950.1	978.7
52.5°	708.9	759.0	844.5	911.6	940.1
55°	656.3	713.2	800.3	870.2	900.1
57.5°	603.5	664.8	754.5	827.4	857.4
60°	552.1	614.8	708.9	781.8	813.1
62.5°	500.7	563.4	661.9	736.0	766.0
65°	446.4	512.1	610.5	686.1	716.2
67.5°	392.3	460.7	559.1	634.8	663.3
70°	335.2	408.0	506.5	580.7	609.2
72.5°	282.5	355.2	452.2	525.0	552.1
75°	229.7	302.4	396.6	463.7	482.2
77.5°	178.3	251.0	335.2	379.5	383.8
80°	129.8	198.4	266.8	279.6	278.1
82.5°	86.9	148.3	184.1	185.4	189.7
85°	49.9	92.7	101.2	99.9	101.2
87.5°	20.0	32.8	28.6	21.3	21.3
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)