

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: P732327

Luminaire Tested: **24CZ2-50HE-S-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50HE-S-B2750-W2D-3000K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

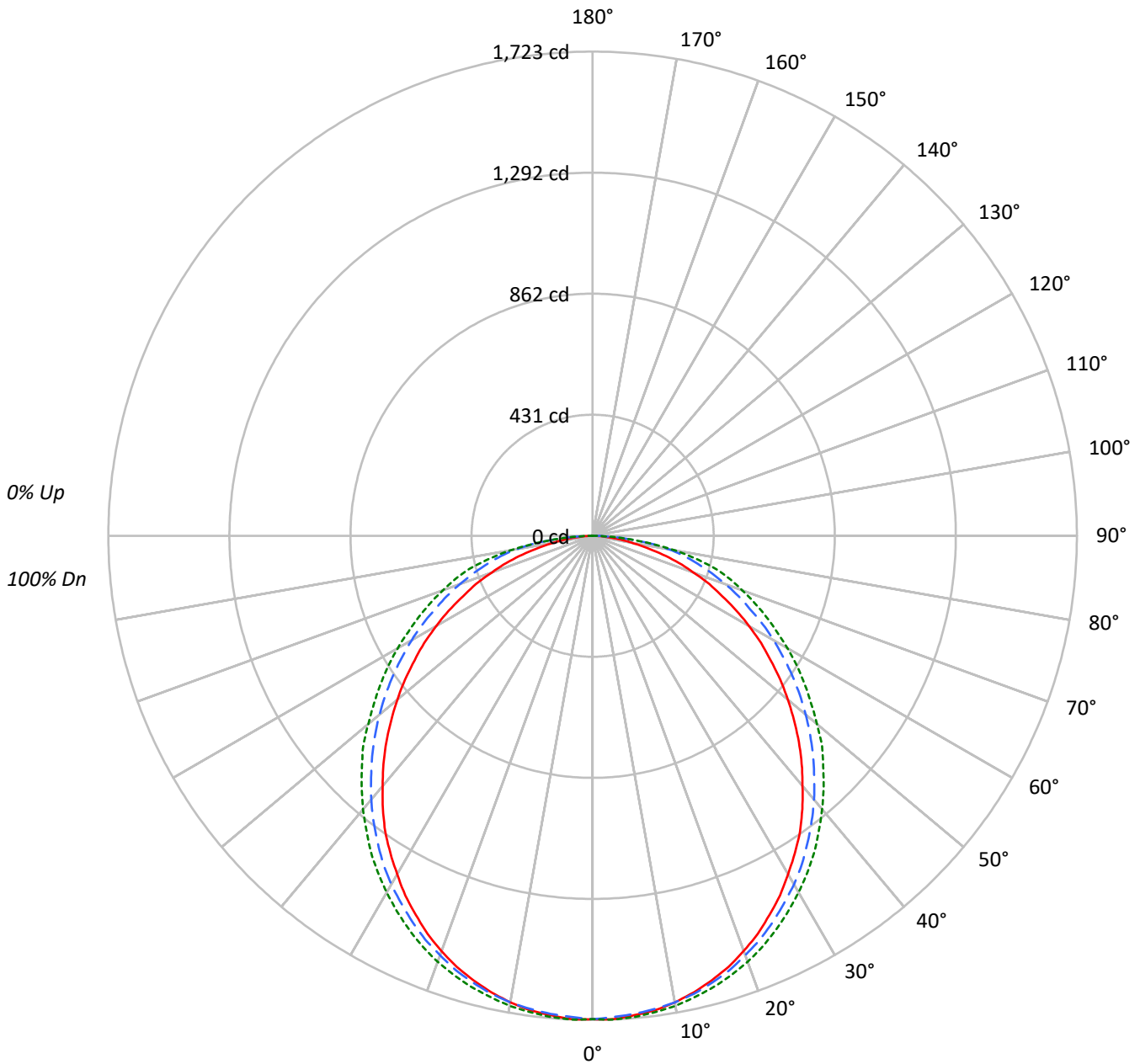
Lumens per Lamp: N/A
Luminaire Lumens: 4897.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P732327

CATALOG NUMBER: 24CZ2-50HE-S-B2750-W2D-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P732327

CATALOG NUMBER: 24CZ2-50HE-S-B2750-W2D-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2428	2428	2428
5°	2426	2420	2435
10°	2416	2416	2434
15°	2393	2405	2430
20°	2362	2385	2423
25°	2318	2362	2408
30°	2266	2335	2388
35°	2216	2297	2369
40°	2141	2258	2341
45°	2071	2214	2316
50°	1991	2172	2288
55°	1902	2132	2266
60°	1813	2099	2261
65°	1698	2062	2275
70°	1572	2073	2336
75°	1409	2112	2468
80°	1138	2238	2414
85°	855	1964	1916



TEST NUMBER: P732327

CATALOG NUMBER: 24CZ2-50HE-S-B2750-W2D-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	3.3
10°-20°	465.4	9.5
20°-30°	699.5	14.3
30°-40°	833.3	17.0
40°-50°	852.8	17.4
50°-60°	767.8	15.7
60°-70°	603.0	12.3
70°-80°	391.3	8.0
80°-90°	121.0	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°	1327.8	27.1
0°-40°	2161.1	44.1
0°-60°	3781.7	77.2
0°-90°	4897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1720	1720	1720	1720	1720	
5°	1713	1716	1708	1717	1719	163
15°	1638	1643	1646	1660	1663	462
25°	1489	1501	1516	1542	1546	686
35°	1286	1302	1333	1366	1375	802
45°	1038	1062	1109	1151	1160	800
55°	773	807	866	912	921	693
65°	509	548	618	669	681	506
75°	258	308	387	440	453	273
85°	53	98	121	118	118	64
90°	0	0	0	0	0	



TEST NUMBER: P732327

CATALOG NUMBER: 24CZ2-50HE-S-B2750-W2D-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1720.4	1720.4	1720.4	1720.4	1720.4
2.5°	1721.9	1721.9	1714.1	1721.9	1723.4
5°	1712.6	1715.7	1707.9	1717.2	1718.7
7.5°	1703.2	1703.2	1698.5	1707.9	1709.6
10°	1686.1	1687.6	1686.1	1697.0	1698.5
12.5°	1664.4	1667.4	1669.1	1679.9	1681.4
15°	1638.0	1642.7	1645.7	1659.7	1662.9
17.5°	1608.4	1613.0	1620.7	1636.3	1639.5
20°	1572.6	1578.7	1588.1	1608.4	1613.0
22.5°	1533.8	1540.0	1555.5	1574.1	1581.9
25°	1488.6	1501.0	1516.5	1541.5	1546.1
27.5°	1443.4	1454.3	1474.5	1501.0	1507.3
30°	1390.6	1407.6	1432.6	1459.0	1465.2
32.5°	1339.2	1356.3	1385.9	1414.0	1421.7
35°	1286.4	1301.9	1333.1	1365.7	1375.0
37.5°	1225.7	1245.9	1280.2	1312.8	1322.2
40°	1161.9	1186.9	1225.7	1260.0	1270.8
42.5°	1101.2	1127.6	1166.6	1203.9	1216.3
45°	1037.5	1062.4	1109.1	1151.1	1160.4
47.5°	972.1	1000.2	1049.9	1091.9	1107.4
50°	906.9	936.5	989.3	1032.8	1042.2
52.5°	841.5	872.6	928.6	975.3	980.0
55°	773.1	807.4	866.4	911.6	920.9
57.5°	710.8	740.5	804.2	850.8	861.7
60°	642.4	675.1	743.5	787.1	801.0
62.5°	577.0	611.3	682.9	726.4	738.8
65°	508.6	547.6	617.5	668.9	681.2
67.5°	449.6	486.9	561.5	611.3	623.7
70°	381.0	423.2	502.4	553.8	566.2
72.5°	322.0	365.5	444.9	494.6	513.3
75°	258.3	307.9	387.4	440.2	452.6
77.5°	196.0	253.6	334.3	374.8	374.8
80°	140.0	200.7	275.3	294.0	297.0
82.5°	91.8	150.9	203.7	202.2	202.2
85°	52.8	98.0	121.3	118.3	118.3
87.5°	20.2	40.5	43.5	43.5	42.0
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)