

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: P880913

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

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P880913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50VHE-S-B2750-W2D-3000K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

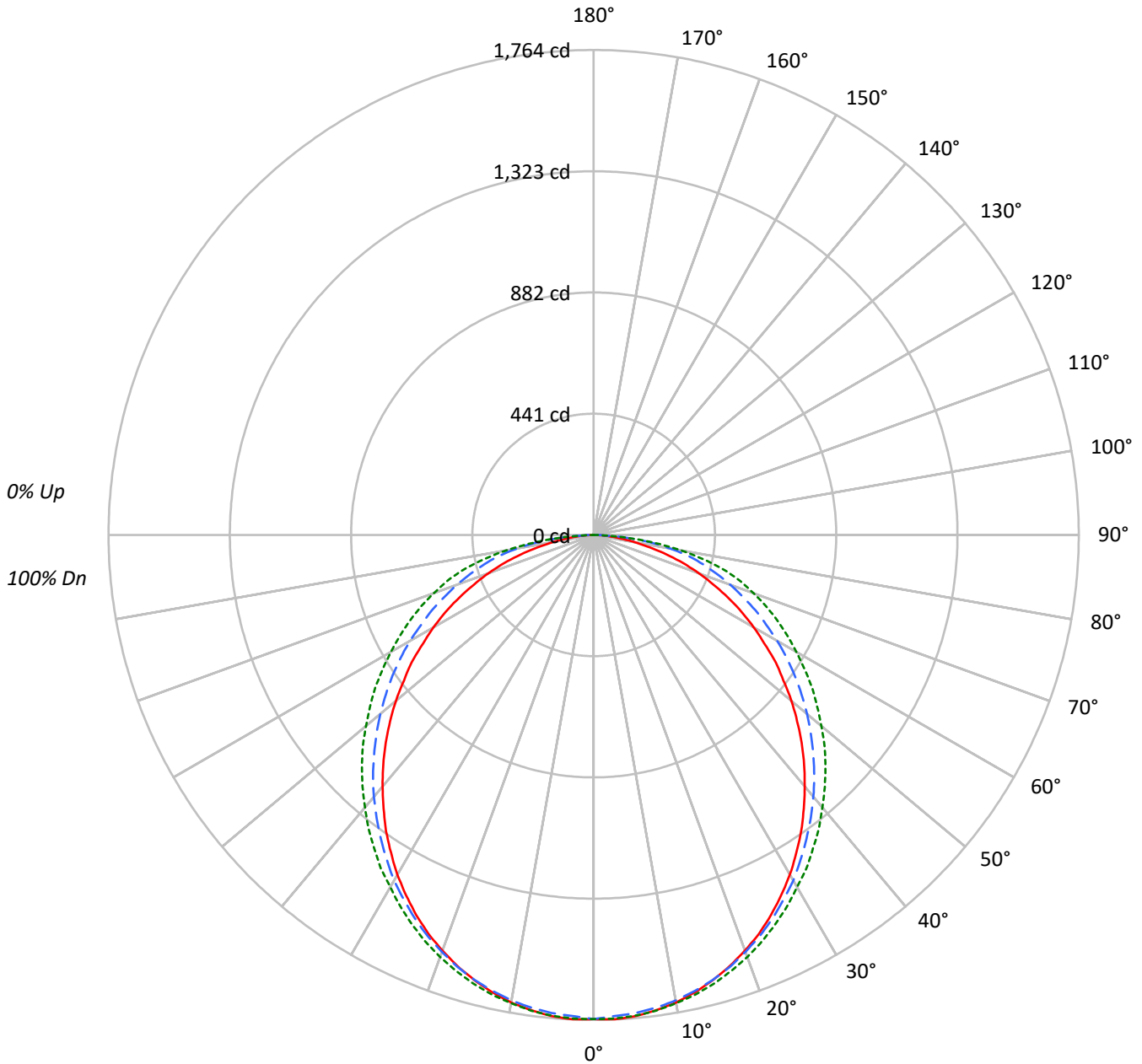
Lumens per Lamp: N/A
Luminaire Lumens: 5045.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): 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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68																			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57																			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2485	2485	2485
5°	2489	2474	2487
10°	2475	2464	2478
15°	2449	2448	2469
20°	2416	2423	2453
25°	2376	2396	2434
30°	2326	2366	2410
35°	2267	2324	2397
40°	2200	2290	2383
45°	2134	2254	2378
50°	2062	2224	2373
55°	1988	2196	2386
60°	1897	2175	2402
65°	1796	2167	2460
70°	1676	2178	2548
75°	1491	2241	2684
80°	1219	2290	2620
85°	860	2000	2040



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	3.3
10°-20°	474.2	9.4
20°-30°	710.7	14.1
30°-40°	846.5	16.8
40°-50°	872.8	17.3
50°-60°	796.5	15.8
60°-70°	636.9	12.6
70°-80°	416.0	8.2
80°-90°	124.9	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°	1351.4	26.8
0°-40°	2197.9	43.6
0°-60°	3867.2	76.7
0°-90°	5045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1757	1753	1746	1757	1755	167
15°	1676	1677	1676	1690	1690	473
25°	1526	1528	1539	1561	1563	702
35°	1316	1325	1349	1383	1391	822
45°	1069	1088	1129	1177	1192	824
55°	808	831	892	951	970	720
65°	538	574	649	713	737	533
75°	274	319	411	477	492	291
85°	53	95	124	126	126	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.0	1761.0	1761.0	1761.0	1761.0
2.5°	1763.5	1761.0	1751.7	1762.7	1761.0
5°	1756.9	1753.4	1746.0	1756.9	1755.2
7.5°	1743.5	1741.8	1734.4	1746.8	1745.1
10°	1726.9	1725.3	1719.5	1731.9	1729.4
12.5°	1703.8	1703.0	1698.8	1713.7	1712.1
15°	1676.3	1677.2	1675.5	1689.7	1689.7
17.5°	1644.9	1644.1	1647.4	1664.8	1663.1
20°	1608.4	1609.2	1613.4	1633.4	1633.4
22.5°	1570.4	1569.5	1578.6	1598.5	1600.1
25°	1525.6	1528.0	1538.8	1561.3	1562.9
27.5°	1477.4	1481.7	1495.0	1520.6	1523.1
30°	1427.0	1432.0	1451.8	1475.8	1479.1
32.5°	1371.5	1382.2	1400.4	1431.2	1439.4
35°	1315.9	1325.0	1349.1	1383.0	1391.3
37.5°	1254.6	1269.5	1296.9	1334.1	1345.0
40°	1194.1	1209.1	1243.0	1282.0	1293.6
42.5°	1132.7	1148.6	1187.4	1231.4	1243.8
45°	1069.1	1088.1	1129.4	1176.7	1191.6
47.5°	1003.6	1025.9	1070.7	1122.0	1138.7
50°	938.9	961.3	1012.7	1065.6	1080.6
52.5°	869.3	897.4	952.2	1009.4	1024.3
55°	808.0	831.1	892.5	951.3	969.5
57.5°	735.9	767.3	832.8	892.5	909.8
60°	672.1	701.0	770.6	831.1	851.0
62.5°	607.4	637.2	706.8	775.6	793.9
65°	537.8	574.2	648.8	712.6	736.7
67.5°	471.5	509.6	586.0	653.7	678.7
70°	406.1	444.9	527.9	597.5	617.4
72.5°	341.4	382.1	468.2	536.2	559.3
75°	273.5	319.1	411.0	477.3	492.2
77.5°	209.6	260.2	353.0	397.8	408.5
80°	150.0	205.5	281.7	314.1	322.4
82.5°	98.5	152.4	210.5	227.8	225.4
85°	53.1	95.2	123.5	126.0	126.0
87.5°	20.7	38.2	39.0	29.8	28.1
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)