

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: P880912

Luminaire Tested: **24CZ2-50VHE-S-B2750-W2D-2700K**

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: P880912
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-2700K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

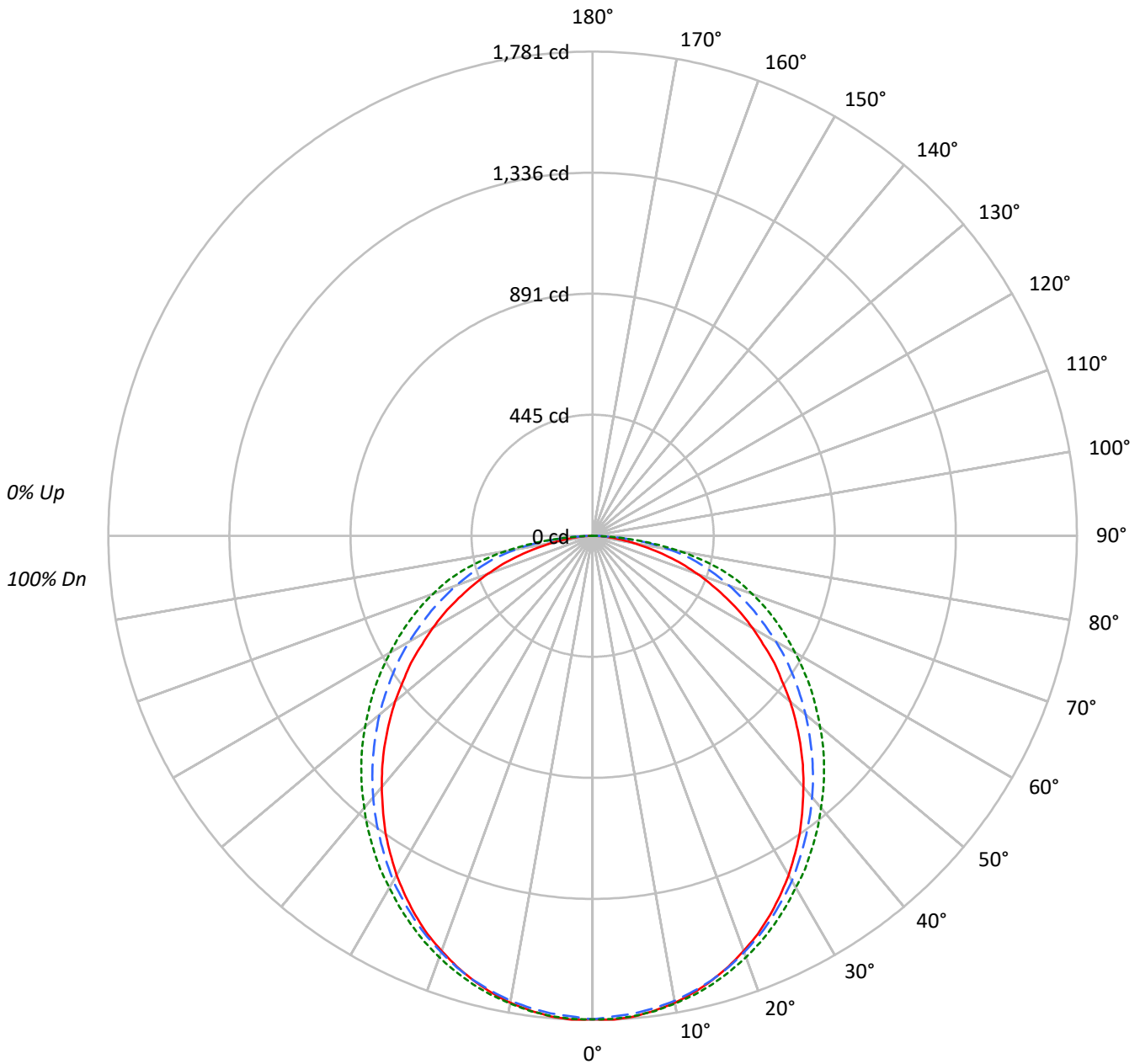
Lumens per Lamp: N/A
Luminaire Lumens: 5096.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2510	2510	2510
5°	2514	2499	2512
10°	2500	2489	2504
15°	2474	2473	2494
20°	2440	2448	2478
25°	2400	2420	2458
30°	2349	2390	2435
35°	2290	2348	2421
40°	2222	2313	2407
45°	2155	2277	2402
50°	2082	2246	2397
55°	2008	2218	2410
60°	1916	2197	2426
65°	1814	2188	2485
70°	1693	2201	2573
75°	1506	2264	2711
80°	1231	2313	2647
85°	868	2021	2061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	3.3
10°-20°	478.9	9.4
20°-30°	717.9	14.1
30°-40°	855.1	16.8
40°-50°	881.7	17.3
50°-60°	804.5	15.8
60°-70°	643.3	12.6
70°-80°	420.2	8.2
80°-90°	126.2	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°	1365.0	26.8
0°-40°	2220.1	43.6
0°-60°	3906.3	76.7
0°-90°	5096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1779	1779	1779	1779	1779	
5°	1775	1771	1764	1775	1773	168
15°	1693	1694	1692	1707	1707	477
25°	1541	1544	1554	1577	1579	709
35°	1329	1338	1363	1397	1405	830
45°	1080	1099	1141	1189	1204	833
55°	816	840	902	961	979	727
65°	543	580	655	720	744	539
75°	276	322	415	482	497	294
85°	54	96	125	127	127	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1778.8	1778.8	1778.8	1778.8	1778.8
2.5°	1781.3	1778.8	1769.4	1780.5	1778.8
5°	1774.6	1771.1	1763.6	1774.6	1773.0
7.5°	1761.1	1759.4	1751.9	1764.4	1762.8
10°	1744.4	1742.7	1736.9	1749.4	1746.9
12.5°	1721.0	1720.2	1716.0	1731.0	1729.4
15°	1693.3	1694.1	1692.5	1706.8	1706.8
17.5°	1661.6	1660.7	1664.1	1681.6	1679.9
20°	1624.7	1625.5	1629.7	1649.9	1649.9
22.5°	1586.2	1585.4	1594.6	1614.6	1616.3
25°	1541.0	1543.5	1554.3	1577.1	1578.7
27.5°	1492.4	1496.7	1510.1	1536.0	1538.5
30°	1441.4	1446.5	1466.5	1490.7	1494.1
32.5°	1385.3	1396.2	1414.6	1445.6	1454.0
35°	1329.2	1338.4	1362.8	1397.0	1405.4
37.5°	1267.3	1282.3	1310.0	1347.6	1358.6
40°	1206.1	1221.3	1255.6	1295.0	1306.7
42.5°	1144.2	1160.2	1199.5	1243.9	1256.4
45°	1079.9	1099.1	1140.8	1188.6	1203.6
47.5°	1013.7	1036.3	1081.5	1133.3	1150.2
50°	948.4	971.0	1022.9	1076.4	1091.6
52.5°	878.1	906.5	961.8	1019.6	1034.6
55°	816.2	839.5	901.5	961.0	979.3
57.5°	743.4	775.1	841.2	901.5	919.0
60°	678.9	708.1	778.4	839.5	859.6
62.5°	613.6	643.6	714.0	783.4	802.0
65°	543.3	580.0	655.3	719.8	744.2
67.5°	476.3	514.7	591.9	660.3	685.6
70°	410.2	449.4	533.3	603.6	623.6
72.5°	344.9	386.0	473.0	541.6	565.0
75°	276.2	322.3	415.2	482.2	497.2
77.5°	211.8	262.9	356.6	401.8	412.7
80°	151.5	207.6	284.6	317.3	325.7
82.5°	99.5	154.0	212.6	230.1	227.6
85°	53.6	96.2	124.8	127.3	127.3
87.5°	20.9	38.6	39.4	30.1	28.4
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)