

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: P880898

Luminaire Tested: **24CZ2-50VHE-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: P880898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50VHE-B2750-W2D-3000K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

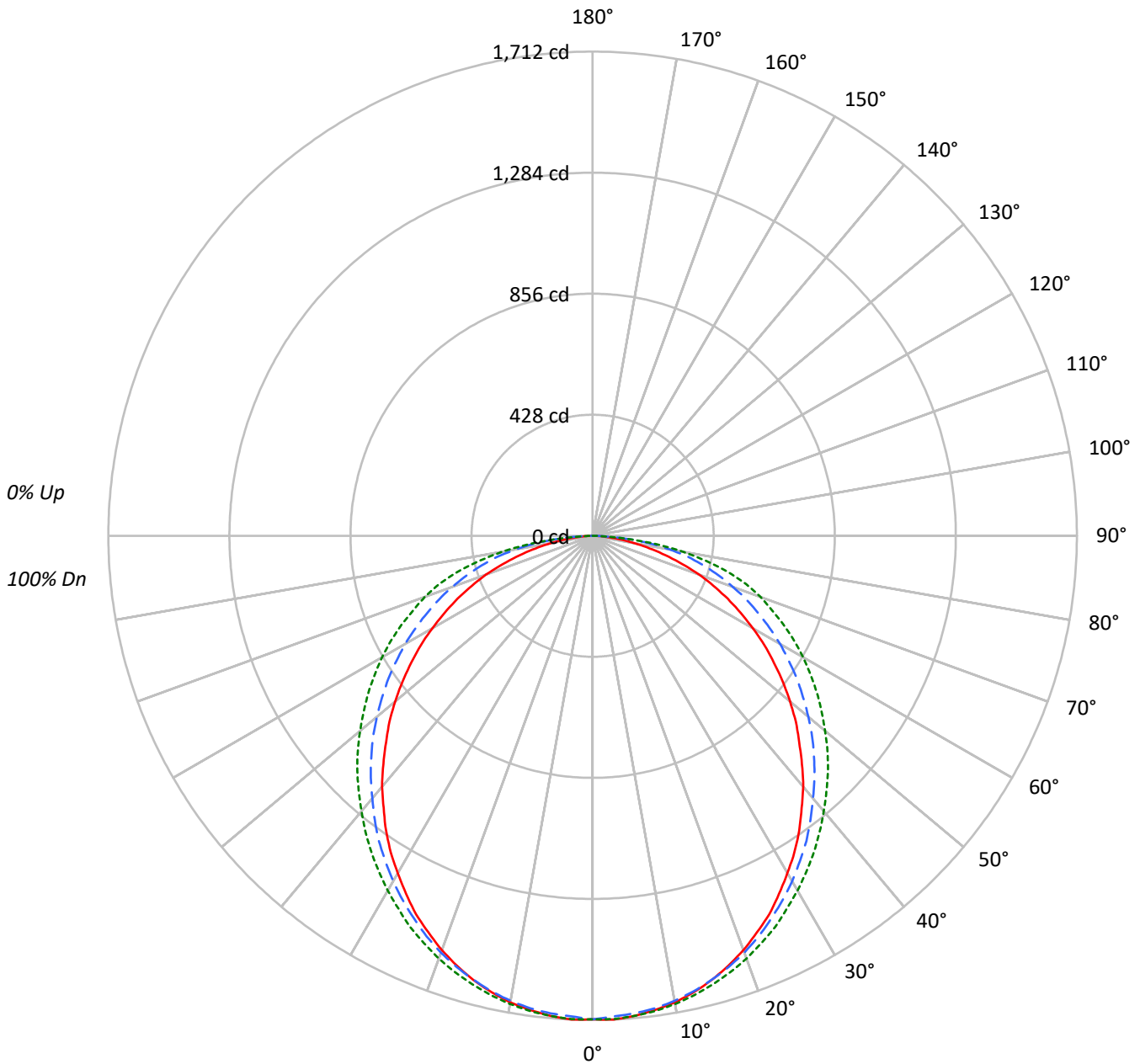
Lumens per Lamp: N/A
Luminaire Lumens: 4948.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68																			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57																			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48																			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42																			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37																			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2413	2413	2413
5°	2414	2402	2414
10°	2401	2393	2409
15°	2377	2375	2399
20°	2341	2356	2389
25°	2300	2327	2377
30°	2245	2299	2361
35°	2194	2270	2351
40°	2134	2233	2342
45°	2061	2210	2349
50°	1999	2185	2355
55°	1926	2170	2382
60°	1846	2159	2426
65°	1759	2152	2488
70°	1656	2173	2602
75°	1456	2219	2707
80°	1216	2235	2611
85°	868	1916	1942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	3.3
10°-20°	460.4	9.3
20°-30°	690.7	14.0
30°-40°	824.6	16.7
40°-50°	854.1	17.3
50°-60°	786.3	15.9
60°-70°	634.3	12.8
70°-80°	414.4	8.4
80°-90°	121.5	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°	1312.7	26.5
0°-40°	2137.3	43.2
0°-60°	3777.8	76.3
0°-90°	4948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1710	1710	1710	1710	1710	
5°	1704	1703	1695	1705	1704	162
15°	1627	1627	1626	1642	1642	458
25°	1477	1480	1494	1521	1527	679
35°	1273	1285	1317	1353	1365	795
45°	1033	1058	1107	1157	1177	798
55°	783	816	882	946	968	700
65°	527	563	644	718	745	521
75°	267	317	407	477	496	285
85°	54	93	118	126	120	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1709.8	1709.8	1709.8	1709.8	1709.8
2.5°	1712.2	1709.8	1701.0	1711.4	1710.6
5°	1704.2	1702.6	1695.4	1705.0	1704.2
7.5°	1691.5	1690.7	1685.1	1695.4	1695.4
10°	1675.5	1673.9	1669.9	1681.9	1681.1
12.5°	1653.1	1652.3	1650.0	1664.3	1663.5
15°	1626.6	1626.6	1625.8	1642.0	1642.0
17.5°	1594.7	1595.5	1598.7	1617.1	1617.9
20°	1558.8	1562.0	1568.4	1589.1	1590.7
22.5°	1517.9	1524.3	1533.1	1556.4	1558.8
25°	1477.2	1480.4	1494.0	1521.1	1526.7
27.5°	1427.6	1435.7	1453.3	1481.2	1486.8
30°	1377.3	1388.5	1410.8	1439.7	1448.5
32.5°	1327.7	1337.4	1363.8	1396.5	1406.9
35°	1273.4	1284.6	1317.3	1353.4	1364.6
37.5°	1213.4	1231.0	1265.4	1306.9	1318.9
40°	1158.3	1174.3	1211.8	1258.3	1271.0
42.5°	1095.1	1115.1	1160.7	1207.8	1223.8
45°	1032.7	1058.4	1107.1	1156.7	1176.7
47.5°	974.5	995.2	1052.8	1108.7	1126.3
50°	910.4	934.4	995.2	1054.4	1072.8
52.5°	847.4	876.1	937.6	1000.0	1019.9
55°	782.6	816.1	881.7	946.5	968.1
57.5°	720.2	753.9	821.7	890.5	912.8
60°	653.9	689.9	765.0	831.3	859.4
62.5°	589.9	625.9	705.0	777.0	803.3
65°	526.7	562.8	644.4	717.8	745.1
67.5°	461.3	500.4	587.5	658.7	685.1
70°	401.3	438.8	526.7	602.7	630.6
72.5°	332.5	377.3	466.9	541.9	568.4
75°	267.0	317.3	406.9	477.3	496.4
77.5°	206.2	256.7	346.0	398.9	410.9
80°	149.6	200.6	275.0	311.7	321.3
82.5°	96.7	149.6	199.0	223.8	227.0
85°	53.6	92.7	118.3	125.5	119.9
87.5°	19.2	35.1	34.3	27.9	22.3
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)