

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: P880863

Luminaire Tested: **24CZ2-40VHE-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: P880863
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: 24CZ2-40VHE-S-B2750-W2D-3000K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

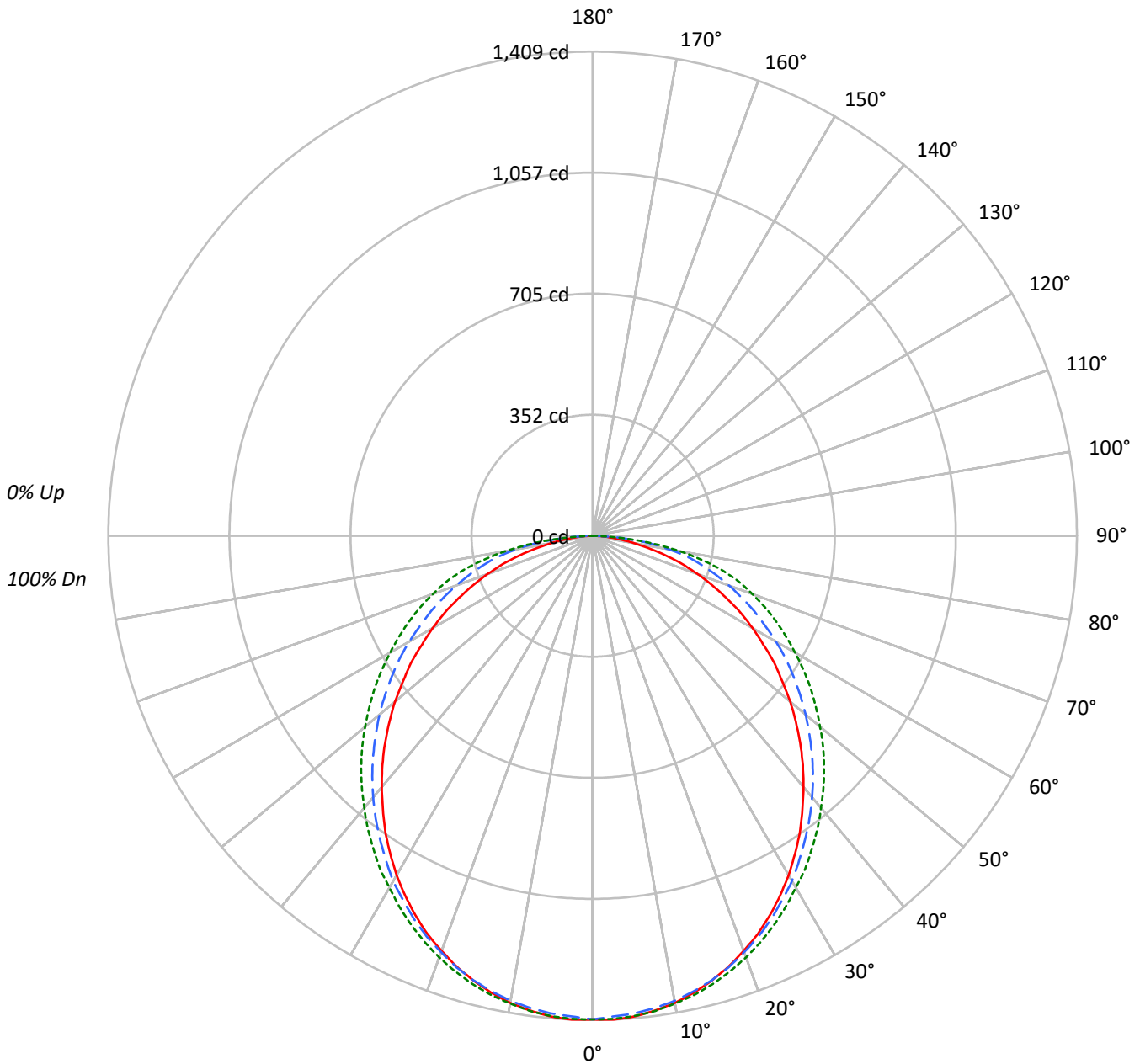
Lumens per Lamp: N/A
Luminaire Lumens: 4032.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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°	1986	1986	1986
5°	1989	1977	1987
10°	1978	1969	1981
15°	1957	1957	1973
20°	1931	1937	1961
25°	1899	1915	1945
30°	1859	1891	1926
35°	1812	1858	1916
40°	1758	1830	1905
45°	1705	1802	1901
50°	1648	1777	1896
55°	1589	1755	1907
60°	1516	1738	1920
65°	1435	1732	1966
70°	1339	1741	2036
75°	1192	1791	2145
80°	974	1830	2094
85°	687	1598	1631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	3.3
10°-20°	378.9	9.4
20°-30°	568.0	14.1
30°-40°	676.5	16.8
40°-50°	697.6	17.3
50°-60°	636.6	15.8
60°-70°	509.0	12.6
70°-80°	332.5	8.2
80°-90°	99.8	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°	1080.0	26.8
0°-40°	1756.6	43.6
0°-60°	3090.7	76.7
0°-90°	4032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1404	1401	1395	1404	1403	133
15°	1340	1340	1339	1350	1350	378
25°	1219	1221	1230	1248	1249	561
35°	1052	1059	1078	1105	1112	657
45°	854	870	903	940	952	659
55°	646	664	713	760	775	575
65°	430	459	518	570	589	426
75°	219	255	328	382	393	232
85°	42	76	99	101	101	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.4	1407.4	1407.4	1407.4	1407.4
2.5°	1409.4	1407.4	1400.0	1408.7	1407.4
5°	1404.1	1401.3	1395.4	1404.1	1402.8
7.5°	1393.4	1392.1	1386.1	1396.0	1394.7
10°	1380.2	1378.9	1374.2	1384.1	1382.2
12.5°	1361.7	1361.0	1357.7	1369.6	1368.3
15°	1339.7	1340.4	1339.1	1350.5	1350.5
17.5°	1314.6	1314.0	1316.6	1330.5	1329.2
20°	1285.4	1286.1	1289.4	1305.4	1305.4
22.5°	1255.0	1254.4	1261.7	1277.5	1278.8
25°	1219.2	1221.2	1229.8	1247.8	1249.1
27.5°	1180.8	1184.2	1194.8	1215.3	1217.3
30°	1140.5	1144.4	1160.3	1179.5	1182.1
32.5°	1096.1	1104.7	1119.2	1143.8	1150.4
35°	1051.7	1059.0	1078.2	1105.3	1111.9
37.5°	1002.7	1014.6	1036.5	1066.2	1074.9
40°	954.3	966.3	993.4	1024.6	1033.8
42.5°	905.3	918.0	949.0	984.2	994.1
45°	854.4	869.6	902.6	940.4	952.3
47.5°	802.1	819.9	855.7	896.7	910.0
50°	750.4	768.3	809.3	851.6	863.7
52.5°	694.8	717.2	761.0	806.7	818.6
55°	645.8	664.3	713.3	760.3	774.9
57.5°	588.1	613.3	665.6	713.3	727.2
60°	537.1	560.3	615.9	664.3	680.1
62.5°	485.5	509.3	564.9	619.9	634.5
65°	429.8	458.9	518.5	569.5	588.8
67.5°	376.9	407.2	468.3	522.5	542.4
70°	324.5	355.6	421.9	477.5	493.4
72.5°	272.9	305.4	374.2	428.5	447.0
75°	218.6	255.0	328.5	381.5	393.4
77.5°	167.6	208.0	282.1	317.9	326.5
80°	119.8	164.2	225.2	251.1	257.7
82.5°	78.8	121.8	168.2	182.1	180.1
85°	42.4	76.1	98.7	100.7	100.7
87.5°	16.5	30.5	31.2	23.8	22.5
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)