

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: P881180

Luminaire Tested: **24CZ2-35VHE-UNV-B40**

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: P881180
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: 24CZ2-35VHE-UNV-B40
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

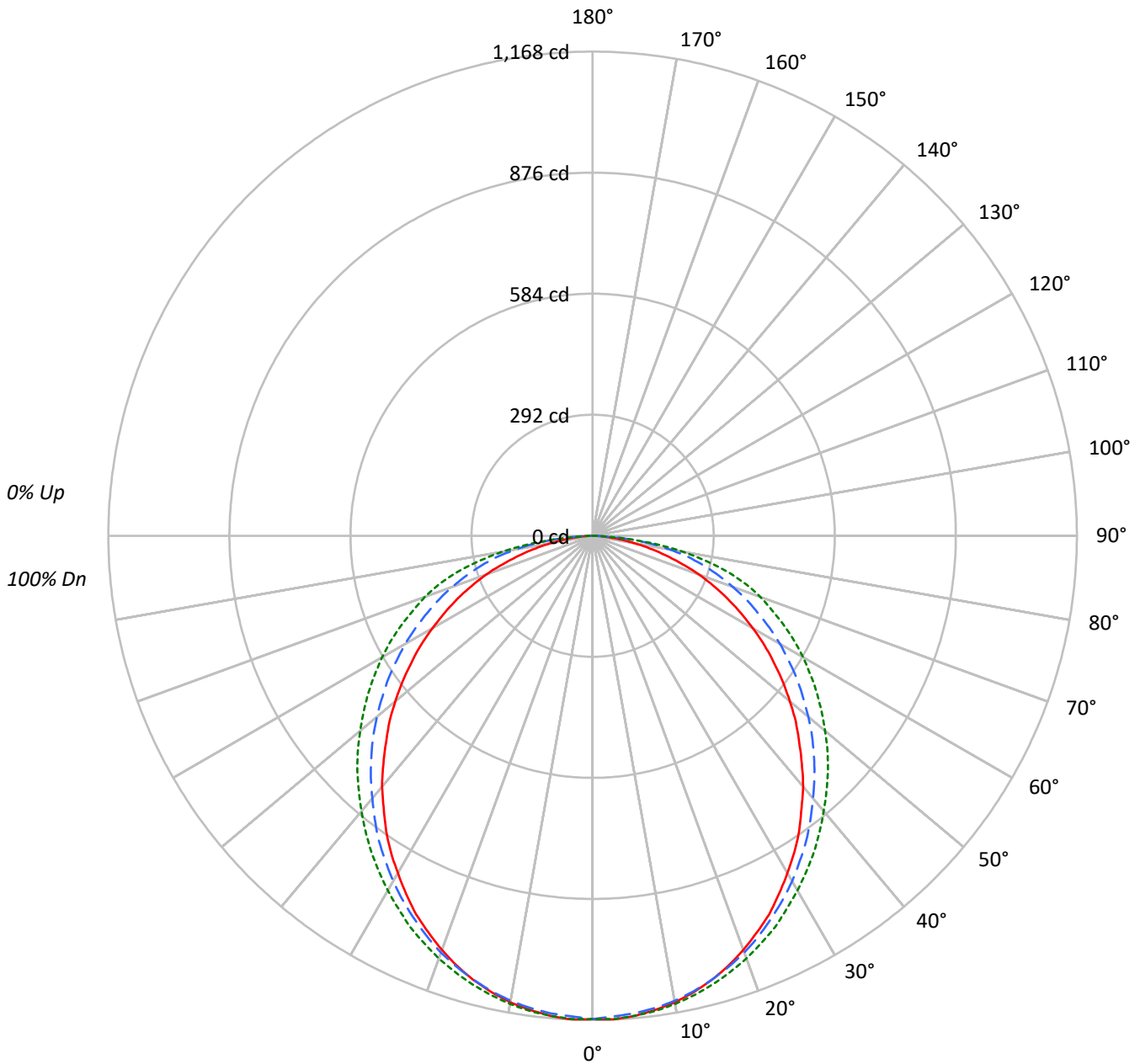
Lumens per Lamp: N/A
Luminaire Lumens: 3375.0 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27
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°	1646	1646	1646
5°	1647	1638	1647
10°	1638	1632	1643
15°	1621	1620	1636
20°	1597	1607	1630
25°	1569	1587	1622
30°	1531	1568	1610
35°	1497	1548	1604
40°	1456	1523	1597
45°	1406	1507	1602
50°	1364	1490	1607
55°	1313	1480	1625
60°	1259	1473	1655
65°	1200	1468	1697
70°	1129	1483	1775
75°	993	1513	1846
80°	829	1525	1782
85°	593	1307	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	3.3
10°-20°	314.0	9.3
20°-30°	471.1	14.0
30°-40°	562.5	16.7
40°-50°	582.6	17.3
50°-60°	536.3	15.9
60°-70°	432.7	12.8
70°-80°	282.7	8.4
80°-90°	82.9	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°	895.4	26.5
0°-40°	1457.8	43.2
0°-60°	2576.8	76.3
0°-90°	3375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1162	1161	1156	1163	1162	110
15°	1110	1110	1109	1120	1120	313
25°	1008	1010	1019	1038	1041	463
35°	869	876	898	923	931	543
45°	704	722	755	789	803	545
55°	534	557	601	646	660	478
65°	359	384	440	490	508	355
75°	182	216	278	326	339	194
85°	37	63	81	86	82	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.2	1166.2	1166.2	1166.2	1166.2
2.5°	1167.9	1166.2	1160.3	1167.3	1166.8
5°	1162.4	1161.3	1156.5	1163.0	1162.4
7.5°	1153.7	1153.2	1149.4	1156.5	1156.5
10°	1142.8	1141.8	1139.0	1147.2	1146.7
12.5°	1127.6	1127.1	1125.4	1135.2	1134.7
15°	1109.5	1109.5	1109.0	1120.0	1120.0
17.5°	1087.8	1088.3	1090.5	1103.0	1103.5
20°	1063.3	1065.4	1069.8	1083.9	1085.0
22.5°	1035.4	1039.7	1045.7	1061.6	1063.3
25°	1007.6	1009.8	1019.1	1037.6	1041.4
27.5°	973.8	979.3	991.3	1010.3	1014.2
30°	939.5	947.1	962.3	982.0	988.0
32.5°	905.6	912.2	930.2	952.5	959.6
35°	868.6	876.2	898.5	923.1	930.8
37.5°	827.7	839.6	863.1	891.5	899.6
40°	790.1	801.0	826.6	858.2	867.0
42.5°	747.0	760.6	791.7	823.8	834.7
45°	704.4	721.9	755.1	789.0	802.6
47.5°	664.7	678.8	718.1	756.2	768.2
50°	621.0	637.3	678.8	719.2	731.7
52.5°	578.0	597.6	639.5	682.1	695.7
55°	533.8	556.7	601.4	645.6	660.3
57.5°	491.2	514.2	560.5	607.4	622.6
60°	446.1	470.5	521.8	567.0	586.2
62.5°	402.4	426.9	480.9	530.0	548.0
65°	359.3	383.9	439.5	489.6	508.2
67.5°	314.6	341.3	400.8	449.3	467.3
70°	273.7	299.3	359.3	411.1	430.2
72.5°	226.8	257.4	318.5	369.6	387.7
75°	182.1	216.4	277.5	325.5	338.6
77.5°	140.7	175.1	236.0	272.1	280.2
80°	102.0	136.9	187.6	212.6	219.2
82.5°	66.0	102.0	135.8	152.6	154.8
85°	36.6	63.3	80.7	85.6	81.8
87.5°	13.1	24.0	23.4	19.1	15.2
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)