

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: P880826

Luminaire Tested: **24CZ2-35VHE-B2750-W2D-5000K**

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: P880826
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-B2750-W2D-5000K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

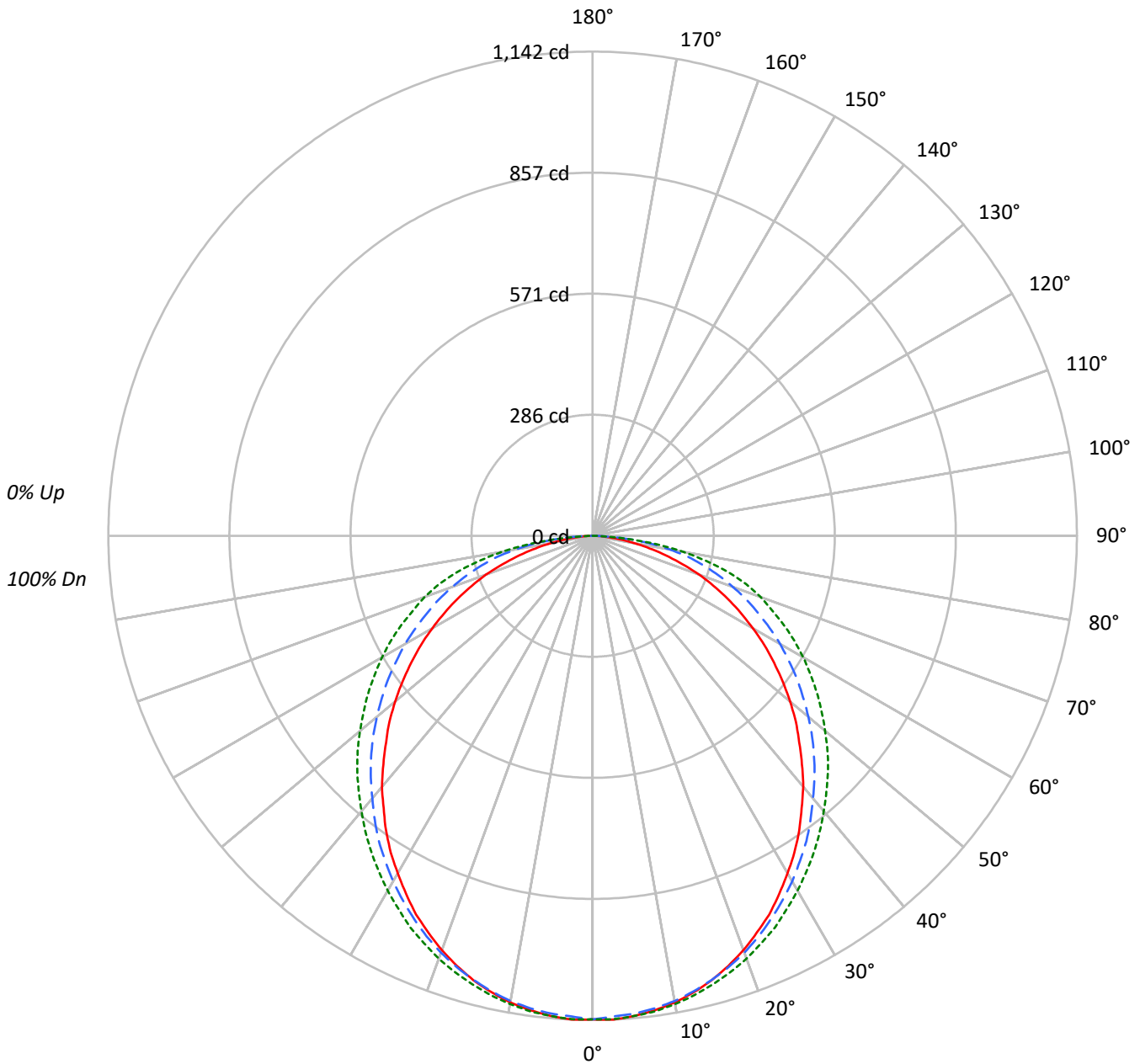
Lumens per Lamp: N/A
Luminaire Lumens: 3301.0 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1610	1610	1610
5°	1611	1602	1611
10°	1602	1597	1607
15°	1586	1585	1601
20°	1562	1571	1594
25°	1535	1552	1586
30°	1498	1534	1575
35°	1464	1514	1568
40°	1424	1489	1562
45°	1375	1474	1567
50°	1334	1458	1571
55°	1285	1447	1589
60°	1232	1441	1618
65°	1174	1436	1660
70°	1105	1450	1736
75°	972	1480	1806
80°	811	1491	1743
85°	580	1278	1295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	3.3
10°-20°	307.1	9.3
20°-30°	460.8	14.0
30°-40°	550.1	16.7
40°-50°	569.8	17.3
50°-60°	524.6	15.9
60°-70°	423.2	12.8
70°-80°	276.5	8.4
80°-90°	81.1	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°	875.8	26.5
0°-40°	1425.9	43.2
0°-60°	2520.3	76.3
0°-90°	3301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1137	1136	1131	1138	1137	108
15°	1085	1085	1085	1095	1095	306
25°	986	988	997	1015	1018	453
35°	850	857	879	903	910	531
45°	689	706	739	772	785	533
55°	522	544	588	632	646	467
65°	351	376	430	479	497	348
75°	178	212	271	318	331	190
85°	36	62	79	84	80	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.7	1140.7	1140.7	1140.7	1140.7
2.5°	1142.3	1140.7	1134.8	1141.7	1141.2
5°	1137.0	1135.9	1131.1	1137.5	1137.0
7.5°	1128.4	1127.9	1124.2	1131.1	1131.1
10°	1117.8	1116.7	1114.1	1122.0	1121.5
12.5°	1102.9	1102.3	1100.7	1110.3	1109.8
15°	1085.2	1085.2	1084.7	1095.4	1095.4
17.5°	1063.9	1064.4	1066.6	1078.8	1079.3
20°	1039.9	1042.1	1046.3	1060.2	1061.2
22.5°	1012.7	1016.9	1022.8	1038.3	1039.9
25°	985.5	987.7	996.7	1014.8	1018.5
27.5°	952.4	957.8	969.6	988.2	991.9
30°	918.9	926.3	941.2	960.5	966.4
32.5°	885.8	892.2	909.8	931.6	938.6
35°	849.5	857.0	878.8	902.9	910.3
37.5°	809.5	821.2	844.2	871.9	879.9
40°	772.8	783.4	808.4	839.4	847.9
42.5°	730.6	743.9	774.4	805.8	816.4
45°	689.0	706.1	738.6	771.7	785.0
47.5°	650.1	663.9	702.4	739.7	751.4
50°	607.4	623.4	663.9	703.4	715.7
52.5°	565.3	584.5	625.5	667.1	680.4
55°	522.1	544.5	588.2	631.5	645.8
57.5°	480.5	502.9	548.2	594.1	609.0
60°	436.3	460.2	510.4	554.6	573.3
62.5°	393.6	417.5	470.3	518.4	535.9
65°	351.4	375.5	429.9	478.9	497.1
67.5°	307.7	333.8	392.0	439.5	457.0
70°	267.7	292.7	351.4	402.1	420.7
72.5°	221.8	251.7	311.5	361.5	379.2
75°	178.2	211.7	271.4	318.4	331.2
77.5°	137.6	171.2	230.9	266.1	274.1
80°	99.8	133.9	183.5	208.0	214.4
82.5°	64.5	99.8	132.8	149.3	151.4
85°	35.8	61.9	78.9	83.7	80.0
87.5°	12.8	23.4	22.9	18.6	14.9
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)