

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: P843023

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-UNV-B40
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

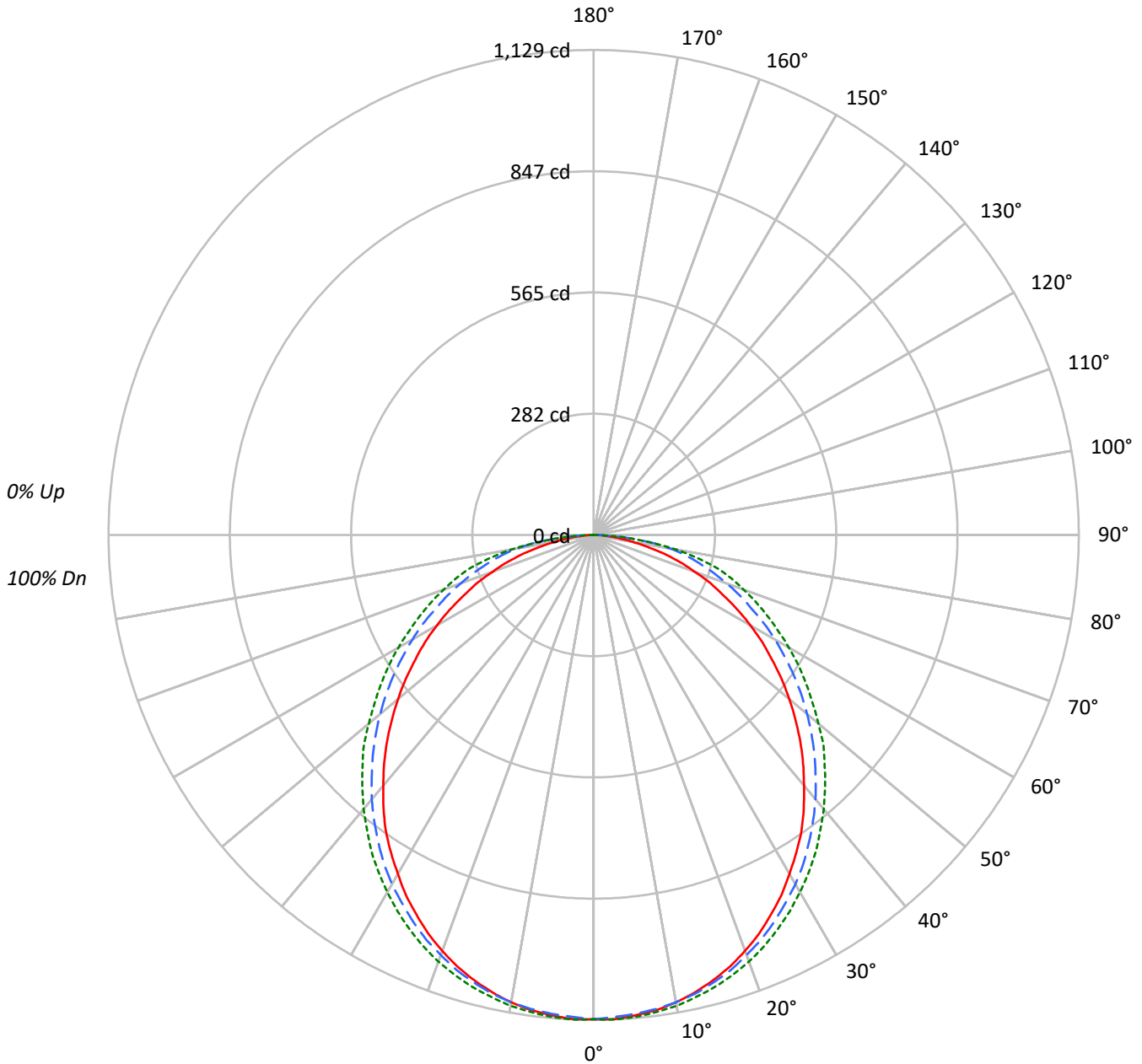
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3209.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): 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	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1591	1591	1591
5°	1590	1586	1596
10°	1583	1583	1595
15°	1568	1576	1592
20°	1548	1563	1588
25°	1519	1548	1578
30°	1485	1530	1565
35°	1452	1505	1553
40°	1403	1480	1534
45°	1357	1451	1518
50°	1305	1423	1499
55°	1247	1397	1485
60°	1188	1375	1482
65°	1113	1352	1491
70°	1030	1359	1531
75°	923	1384	1617
80°	745	1466	1582
85°	560	1287	1255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.3
10°-20°	305.0	9.5
20°-30°	458.4	14.3
30°-40°	546.0	17.0
40°-50°	558.8	17.4
50°-60°	503.1	15.7
60°-70°	395.1	12.3
70°-80°	256.4	8.0
80°-90°	79.3	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°	870.1	27.1
0°-40°	1416.1	44.1
0°-60°	2478.1	77.2
0°-90°	3209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1122	1124	1119	1125	1126	107
15°	1073	1076	1078	1088	1090	303
25°	976	984	994	1010	1013	449
35°	843	853	874	895	901	526
45°	680	696	727	754	760	524
55°	507	529	568	597	604	454
65°	333	359	405	438	446	332
75°	169	202	254	288	297	179
85°	35	64	80	78	78	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127.4	1127.4	1127.4	1127.4	1127.4
2.5°	1128.4	1128.4	1123.2	1128.4	1129.4
5°	1122.2	1124.3	1119.2	1125.3	1126.3
7.5°	1116.1	1116.1	1113.0	1119.2	1120.3
10°	1104.9	1105.9	1104.9	1112.0	1113.0
12.5°	1090.7	1092.6	1093.7	1100.9	1101.9
15°	1073.4	1076.4	1078.4	1087.6	1089.7
17.5°	1054.0	1057.0	1062.1	1072.3	1074.3
20°	1030.5	1034.6	1040.7	1054.0	1057.0
22.5°	1005.1	1009.1	1019.3	1031.5	1036.6
25°	975.5	983.6	993.8	1010.1	1013.2
27.5°	945.9	953.0	966.3	983.6	987.8
30°	911.2	922.4	938.8	956.1	960.1
32.5°	877.6	888.8	908.2	926.6	931.6
35°	843.0	853.2	873.5	894.9	901.1
37.5°	803.2	816.4	838.9	860.3	866.4
40°	761.4	777.8	803.2	825.7	832.8
42.5°	721.6	738.9	764.5	788.9	797.0
45°	679.9	696.2	726.8	754.3	760.4
47.5°	637.0	655.4	688.0	715.5	725.7
50°	594.3	613.7	648.3	676.8	682.9
52.5°	551.4	571.8	608.5	639.1	642.2
55°	506.6	529.1	567.8	597.3	603.5
57.5°	465.8	485.2	527.0	557.6	564.7
60°	421.0	442.4	487.2	515.8	524.9
62.5°	378.1	400.6	447.5	476.0	484.1
65°	333.3	358.9	404.7	438.3	446.4
67.5°	294.6	319.1	367.9	400.6	408.7
70°	249.7	277.3	329.3	362.9	371.0
72.5°	211.0	239.5	291.6	324.1	336.4
75°	169.2	201.8	253.8	288.5	296.6
77.5°	128.5	166.2	219.1	245.6	245.6
80°	91.7	131.5	180.4	192.7	194.7
82.5°	60.2	98.9	133.5	132.5	132.5
85°	34.6	64.2	79.5	77.5	77.5
87.5°	13.3	26.5	28.5	28.5	27.5
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)