

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: P843024

Luminaire Tested: **24CZ2-35-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843024
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-B50
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

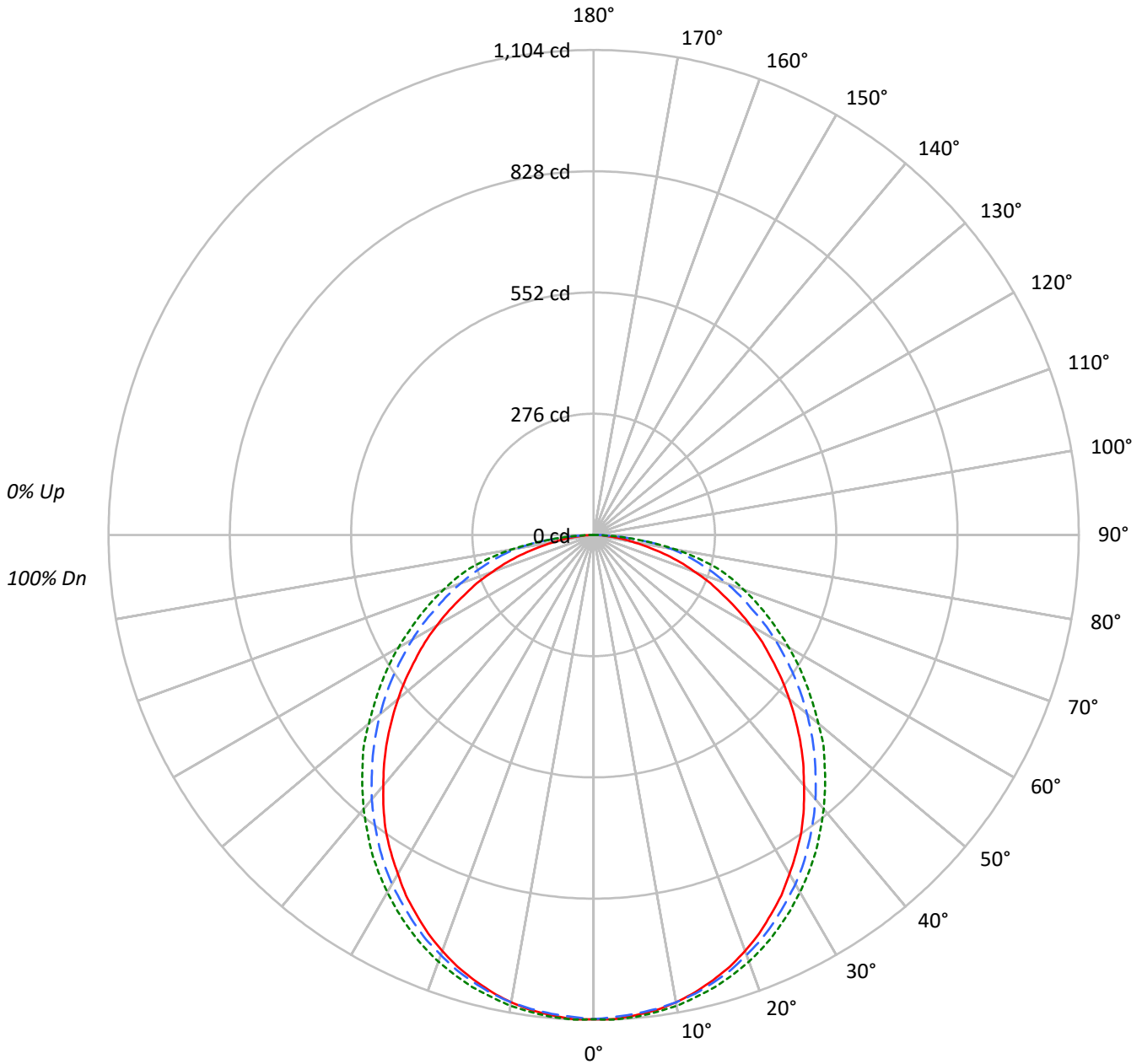
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3138.0 lumens
Efficiency: N/A
Efficacy: 112.1 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°	1556	1556	1556
5°	1555	1550	1560
10°	1548	1548	1560
15°	1534	1541	1557
20°	1513	1529	1552
25°	1485	1513	1543
30°	1452	1496	1530
35°	1420	1472	1518
40°	1372	1447	1500
45°	1327	1419	1484
50°	1276	1392	1466
55°	1219	1366	1452
60°	1162	1345	1449
65°	1088	1321	1458
70°	1007	1329	1497
75°	902	1353	1581
80°	729	1434	1547
85°	549	1258	1227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.3
10°-20°	298.2	9.5
20°-30°	448.3	14.3
30°-40°	534.0	17.0
40°-50°	546.5	17.4
50°-60°	492.0	15.7
60°-70°	386.4	12.3
70°-80°	250.8	8.0
80°-90°	77.6	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°	850.8	27.1
0°-40°	1384.8	44.1
0°-60°	2423.3	77.2
0°-90°	3138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1097	1099	1094	1100	1101	104
15°	1050	1053	1054	1064	1066	296
25°	954	962	972	988	991	439
35°	824	834	854	875	881	514
45°	665	681	711	738	744	513
55°	495	517	555	584	590	444
65°	326	351	396	429	436	324
75°	166	197	248	282	290	175
85°	34	63	78	76	76	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.5	1102.5	1102.5	1102.5	<i>1102.5</i>
2.5°	<i>1103.4</i>	<i>1103.4</i>	<i>1098.4</i>	<i>1103.4</i>	<i>1104.4</i>
5°	1097.4	1099.4	1094.4	1100.4	<i>1101.4</i>
7.5°	1091.4	1091.4	1088.4	1094.4	<i>1095.5</i>
10°	1080.5	1081.4	1080.5	1087.4	<i>1088.4</i>
12.5°	1066.5	1068.5	1069.5	1076.5	<i>1077.5</i>
15°	1049.6	1052.6	1054.5	1063.5	<i>1065.6</i>
17.5°	1030.6	1033.6	1038.6	1048.5	<i>1050.6</i>
20°	1007.7	1011.7	1017.7	1030.6	<i>1033.6</i>
22.5°	982.8	986.8	996.8	1008.7	<i>1013.7</i>
25°	953.9	961.8	971.8	987.8	<i>990.8</i>
27.5°	925.0	931.9	944.9	961.8	<i>965.9</i>
30°	891.1	902.0	918.0	934.9	<i>938.9</i>
32.5°	858.2	869.1	888.1	906.1	<i>911.0</i>
35°	824.3	834.3	854.2	875.1	<i>881.1</i>
37.5°	785.4	798.4	820.4	841.2	<i>847.3</i>
40°	744.6	760.5	785.4	807.4	<i>814.3</i>
42.5°	705.7	722.6	747.6	771.5	<i>779.4</i>
45°	664.8	680.8	710.7	737.6	<i>743.6</i>
47.5°	622.9	640.9	672.8	699.7	<i>709.6</i>
50°	581.1	600.1	634.0	661.8	<i>667.8</i>
52.5°	539.2	559.2	595.1	625.0	<i>628.0</i>
55°	495.4	517.4	555.2	584.1	<i>590.1</i>
57.5°	455.5	474.5	515.3	545.2	<i>552.2</i>
60°	411.7	432.6	476.4	504.4	<i>513.3</i>
62.5°	369.8	391.7	437.6	465.5	<i>473.4</i>
65°	325.9	350.9	395.7	428.6	<i>436.5</i>
67.5°	288.1	312.0	359.8	391.7	<i>399.7</i>
70°	244.1	271.2	322.0	354.9	<i>362.8</i>
72.5°	206.3	234.2	285.1	316.9	<i>328.9</i>
75°	165.5	197.3	248.2	282.1	<i>290.0</i>
77.5°	125.6	162.5	214.2	240.2	<i>240.2</i>
80°	89.7	128.6	176.4	188.4	<i>190.3</i>
82.5°	58.8	96.7	130.5	129.6	<i>129.6</i>
85°	33.9	62.8	77.7	75.8	<i>75.8</i>
87.5°	13.0	25.9	27.9	27.9	<i>26.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)