

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: P732155

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732155
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-S-B2750-W2D-5000K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

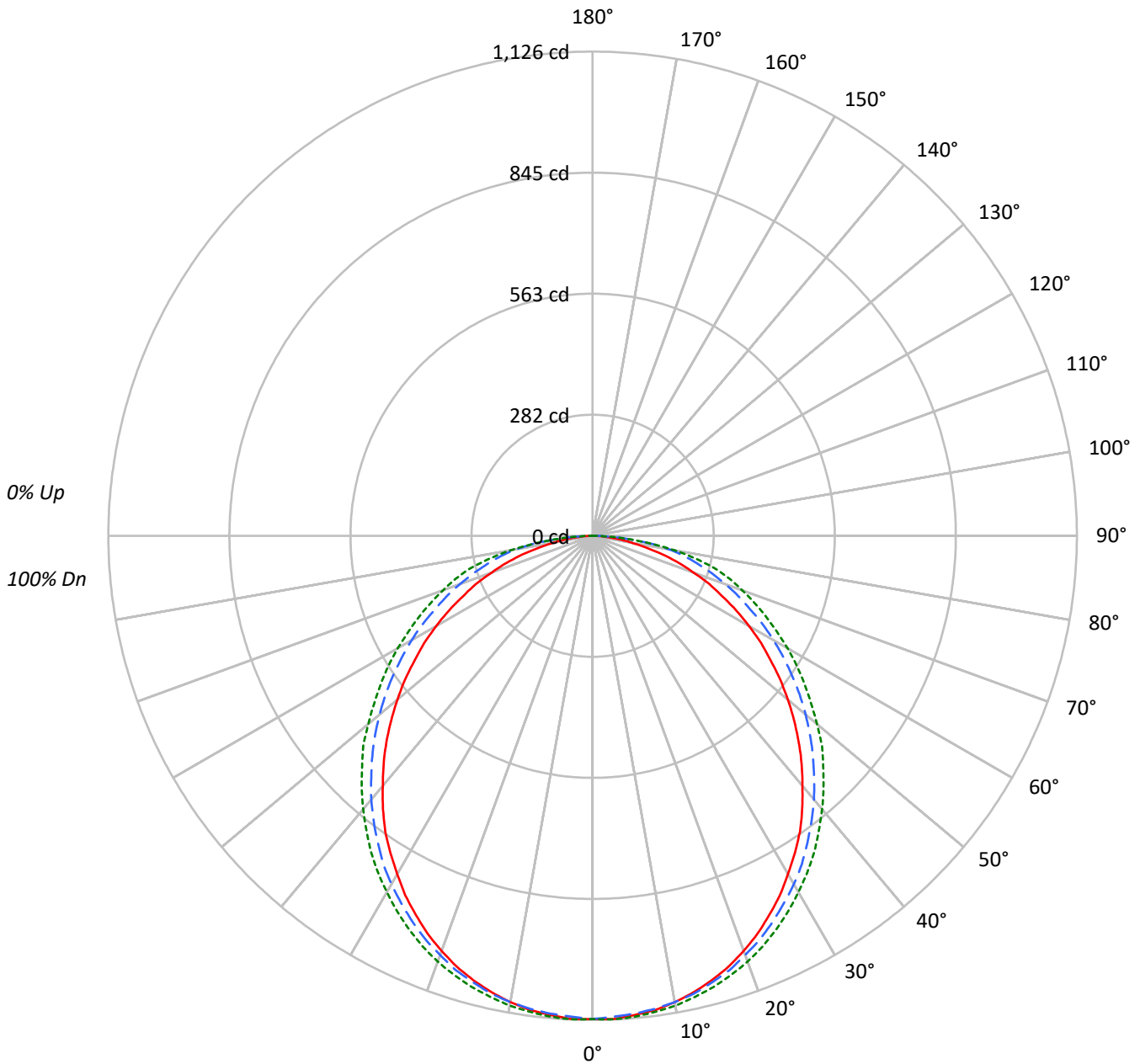
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3199.0 lumens
Efficiency: N/A
Efficacy: 114.2 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					20					
RC	80					70					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°	1586	1586	1586
5°	1585	1581	1591
10°	1579	1579	1590
15°	1563	1571	1587
20°	1543	1558	1583
25°	1514	1543	1573
30°	1480	1525	1560
35°	1448	1500	1548
40°	1398	1475	1530
45°	1353	1446	1513
50°	1301	1419	1495
55°	1243	1393	1480
60°	1185	1371	1477
65°	1110	1347	1486
70°	1027	1354	1526
75°	920	1380	1612
80°	744	1461	1577
85°	559	1283	1252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	3.3
10°-20°	304.0	9.5
20°-30°	457.0	14.3
30°-40°	544.3	17.0
40°-50°	557.1	17.4
50°-60°	501.6	15.7
60°-70°	393.9	12.3
70°-80°	255.6	8.0
80°-90°	79.1	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°	867.4	27.1
0°-40°	1411.7	44.1
0°-60°	2470.4	77.2
0°-90°	3199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1119	1121	1116	1122	1123	106
15°	1070	1073	1075	1084	1086	302
25°	972	980	991	1007	1010	448
35°	840	850	871	892	898	524
45°	678	694	724	752	758	523
55°	505	527	566	596	602	453
65°	332	358	403	437	445	331
75°	169	201	253	288	296	179
85°	34	64	79	77	77	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.9	1123.9	1123.9	1123.9	<i>1123.9</i>
2.5°	<i>1124.9</i>	<i>1124.9</i>	<i>1119.7</i>	<i>1124.9</i>	<i>1125.8</i>
5°	1118.7	1120.8	1115.7	1121.8	<i>1122.8</i>
7.5°	1112.6	1112.6	1109.6	1115.7	<i>1116.8</i>
10°	1101.5	1102.5	1101.5	1108.6	<i>1109.6</i>
12.5°	1087.3	1089.2	1090.3	1097.4	<i>1098.4</i>
15°	1070.0	1073.1	1075.0	1084.2	<i>1086.3</i>
17.5°	1050.7	1053.7	1058.8	1068.9	<i>1071.0</i>
20°	1027.3	1031.3	1037.4	1050.7	<i>1053.7</i>
22.5°	1001.9	1006.0	1016.1	1028.3	<i>1033.4</i>
25°	972.4	980.5	990.7	1007.0	<i>1010.0</i>
27.5°	942.9	950.0	963.3	980.5	<i>984.7</i>
30°	908.4	919.6	935.8	953.1	<i>957.1</i>
32.5°	874.9	886.0	905.3	923.7	<i>928.7</i>
35°	840.3	850.5	870.8	892.1	<i>898.2</i>
37.5°	800.7	813.9	836.3	857.6	<i>863.7</i>
40°	759.0	775.3	800.7	823.1	<i>830.2</i>
42.5°	719.4	736.6	762.1	786.5	<i>794.6</i>
45°	677.8	694.0	724.5	751.9	<i>758.1</i>
47.5°	635.0	653.4	685.8	713.3	<i>723.4</i>
50°	592.4	611.8	646.3	674.7	<i>680.8</i>
52.5°	549.7	570.0	606.6	637.1	<i>640.2</i>
55°	505.0	527.4	566.0	595.5	<i>601.6</i>
57.5°	464.4	483.7	525.3	555.8	<i>562.9</i>
60°	419.7	441.0	485.7	514.2	<i>523.3</i>
62.5°	377.0	399.4	446.1	474.5	<i>482.6</i>
65°	332.3	357.7	403.4	436.9	<i>445.0</i>
67.5°	293.7	318.1	366.8	399.4	<i>407.4</i>
70°	248.9	276.4	328.2	361.8	<i>369.9</i>
72.5°	210.3	238.7	290.6	323.1	<i>335.3</i>
75°	168.7	201.1	253.1	287.6	<i>295.7</i>
77.5°	128.1	165.6	218.4	244.9	<i>244.9</i>
80°	91.5	131.1	179.8	192.1	<i>194.0</i>
82.5°	60.0	98.6	133.1	132.1	<i>132.1</i>
85°	34.5	64.0	79.2	77.3	<i>77.3</i>
87.5°	13.2	26.4	28.4	28.4	<i>27.4</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)