

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: P843033

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843033
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: 24CZ2-35HE-S-UNV-B50
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

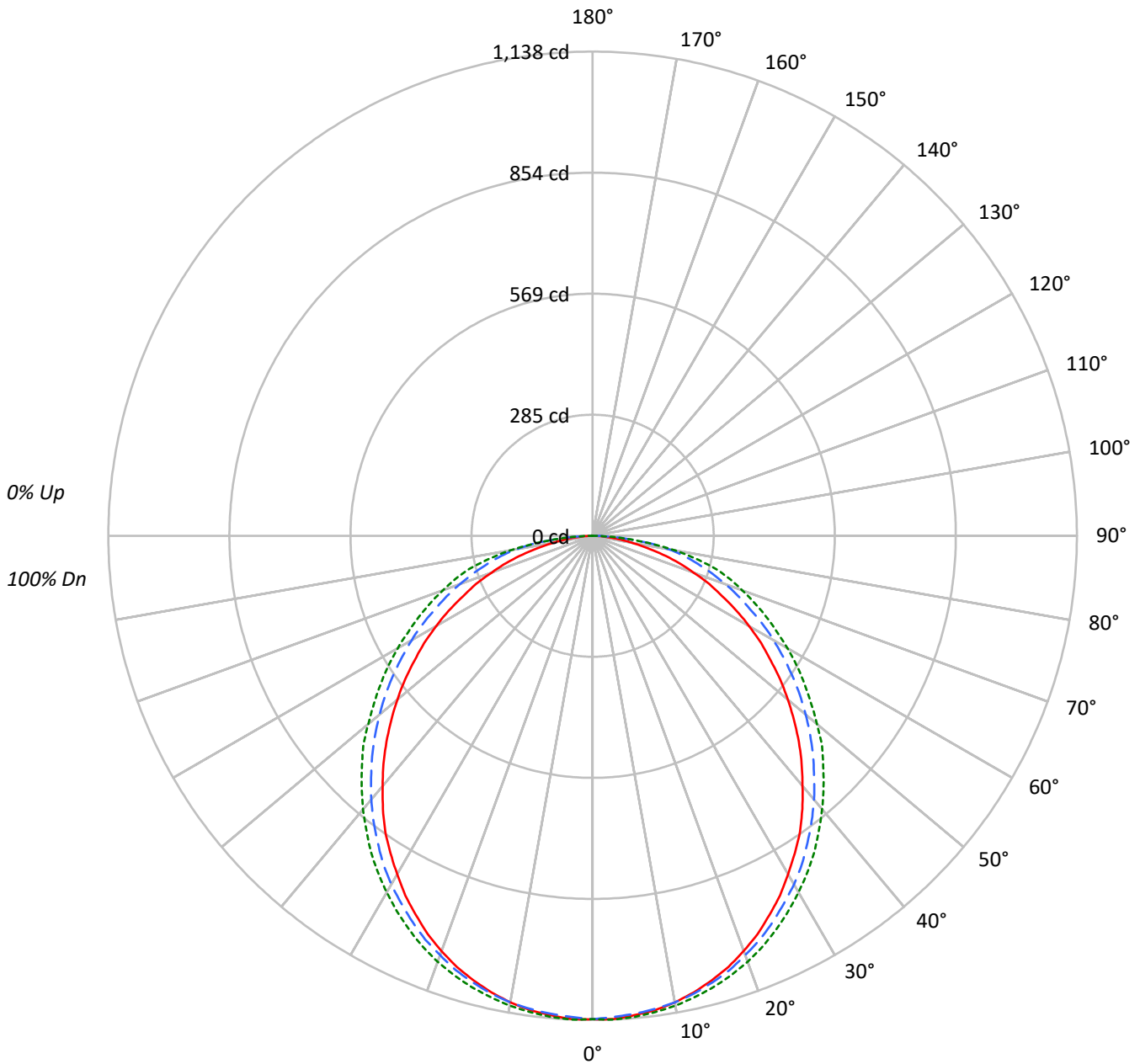
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3234.0 lumens
Efficiency: N/A
Efficacy: 124.4 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): 26
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°	1604	1604	1604
5°	1602	1598	1608
10°	1596	1596	1608
15°	1581	1588	1605
20°	1560	1575	1600
25°	1531	1560	1590
30°	1497	1542	1577
35°	1464	1517	1565
40°	1414	1491	1546
45°	1368	1462	1530
50°	1315	1435	1511
55°	1256	1408	1497
60°	1198	1386	1493
65°	1122	1362	1502
70°	1038	1369	1543
75°	930	1395	1630
80°	752	1478	1595
85°	565	1297	1265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.3
10°-20°	307.3	9.5
20°-30°	462.0	14.3
30°-40°	550.3	17.0
40°-50°	563.2	17.4
50°-60°	507.1	15.7
60°-70°	398.2	12.3
70°-80°	258.4	8.0
80°-90°	79.9	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°	876.9	27.1
0°-40°	1427.2	44.1
0°-60°	2497.5	77.2
0°-90°	3234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1131	1133	1128	1134	1135	107
15°	1082	1085	1087	1096	1098	305
25°	983	991	1002	1018	1021	453
35°	850	860	880	902	908	530
45°	685	702	732	760	766	528
55°	510	533	572	602	608	458
65°	336	362	408	442	450	334
75°	171	203	256	291	299	180
85°	35	65	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°	1136.2	1136.2	1136.2	1136.2	<i>1136.2</i>
2.5°	<i>1137.2</i>	<i>1137.2</i>	<i>1132.0</i>	<i>1137.2</i>	<i>1138.2</i>
5°	1131.0	1133.1	1127.9	1134.1	<i>1135.1</i>
7.5°	1124.8	1124.8	1121.7	1127.9	<i>1129.0</i>
10°	1113.5	1114.5	1113.5	1120.7	<i>1121.7</i>
12.5°	1099.2	1101.2	1102.3	1109.4	<i>1110.4</i>
15°	1081.7	1084.8	1086.8	1096.1	<i>1098.2</i>
17.5°	1062.2	1065.3	1070.3	1080.6	<i>1082.7</i>
20°	1038.5	1042.6	1048.8	1062.2	<i>1065.3</i>
22.5°	1012.9	1017.0	1027.3	1039.5	<i>1044.7</i>
25°	983.1	991.2	1001.5	1018.0	<i>1021.1</i>
27.5°	953.3	960.4	973.8	991.2	<i>995.5</i>
30°	918.3	929.6	946.1	963.5	<i>967.6</i>
32.5°	884.4	895.7	915.3	933.8	<i>938.9</i>
35°	849.5	859.8	880.4	901.9	<i>908.1</i>
37.5°	809.4	822.8	845.5	867.0	<i>873.2</i>
40°	767.4	783.8	809.4	832.1	<i>839.3</i>
42.5°	727.3	744.7	770.4	795.1	<i>803.2</i>
45°	685.2	701.6	732.5	760.2	<i>766.4</i>
47.5°	642.0	660.5	693.3	721.1	<i>731.3</i>
50°	598.9	618.5	653.4	682.1	<i>688.3</i>
52.5°	555.7	576.3	613.3	644.1	<i>647.2</i>
55°	510.5	533.2	572.2	602.0	<i>608.2</i>
57.5°	469.4	489.0	531.1	561.9	<i>569.1</i>
60°	424.3	445.8	491.0	519.8	<i>529.0</i>
62.5°	381.1	403.7	451.0	479.7	<i>487.9</i>
65°	335.9	361.6	407.8	441.7	<i>449.9</i>
67.5°	296.9	321.5	370.8	403.7	<i>411.9</i>
70°	251.6	279.5	331.8	365.7	<i>373.9</i>
72.5°	212.6	241.3	293.8	326.6	<i>339.0</i>
75°	170.6	203.3	255.8	290.7	<i>298.9</i>
77.5°	129.5	167.5	220.8	247.5	<i>247.5</i>
80°	92.5	132.6	181.8	194.2	<i>196.2</i>
82.5°	60.6	99.6	134.5	133.5	<i>133.5</i>
85°	34.9	64.7	80.1	78.1	<i>78.1</i>
87.5°	13.4	26.7	28.7	28.7	<i>27.7</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)