

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: P843039

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843039
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-UNV-B50
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

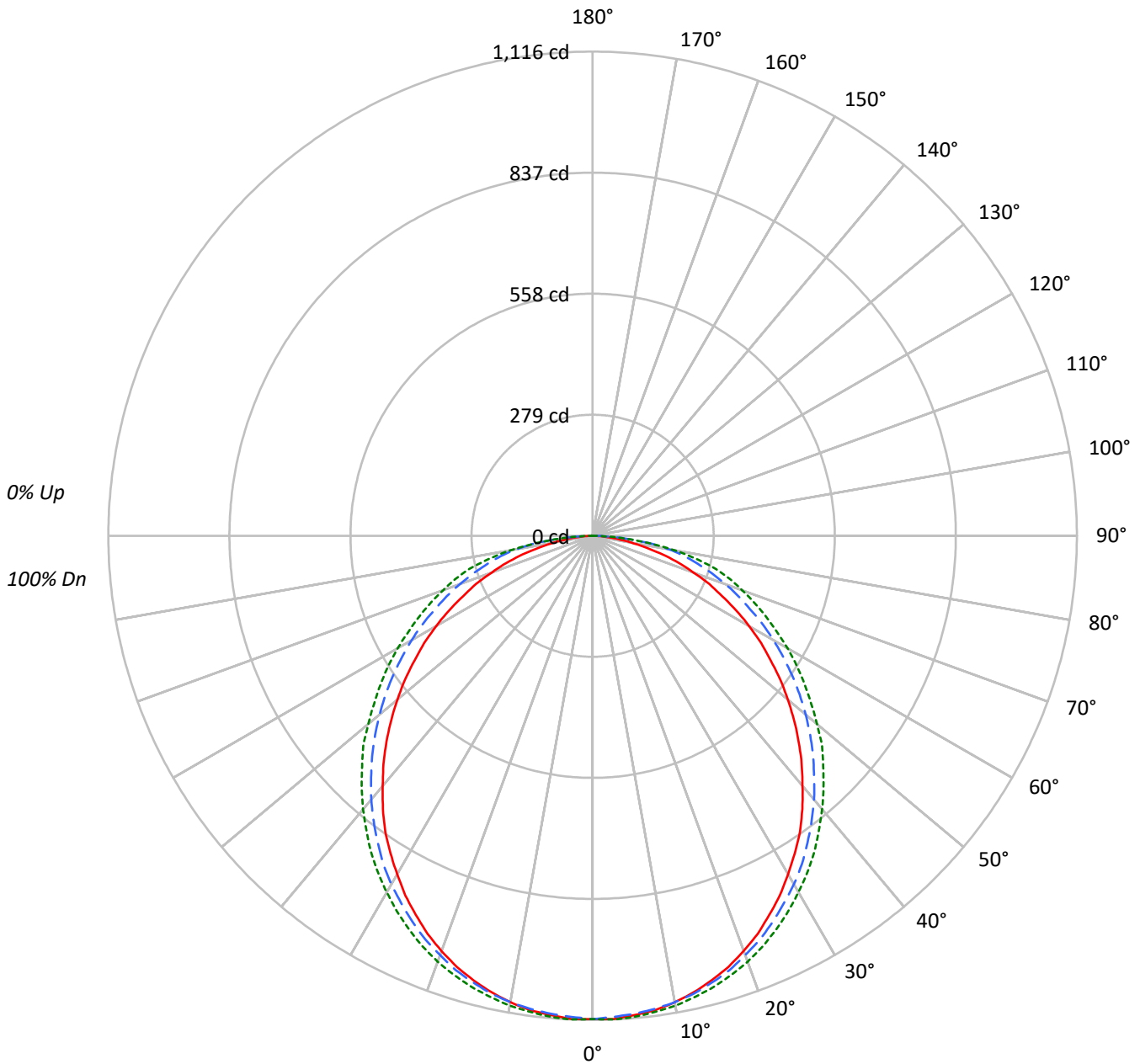
Lumens per Lamp: N/A
Luminaire Lumens: 3171.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					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°	1572	1572	1572
5°	1571	1567	1577
10°	1565	1565	1576
15°	1550	1557	1573
20°	1529	1545	1569
25°	1501	1529	1559
30°	1468	1512	1546
35°	1435	1487	1534
40°	1386	1462	1516
45°	1341	1433	1500
50°	1289	1407	1482
55°	1232	1380	1467
60°	1174	1359	1464
65°	1100	1335	1473
70°	1018	1343	1513
75°	912	1368	1598
80°	737	1449	1563
85°	554	1271	1240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	3.3
10°-20°	301.3	9.5
20°-30°	453.0	14.3
30°-40°	539.6	17.0
40°-50°	552.2	17.4
50°-60°	497.2	15.7
60°-70°	390.5	12.3
70°-80°	253.4	8.0
80°-90°	78.4	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°	859.8	27.1
0°-40°	1399.4	44.1
0°-60°	2448.8	77.2
0°-90°	3171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1109	1111	1106	1112	1113	105
15°	1061	1064	1066	1075	1077	299
25°	964	972	982	998	1001	444
35°	833	843	863	884	890	520
45°	672	688	718	745	751	518
55°	501	523	561	590	596	449
65°	329	355	400	433	441	328
75°	167	199	251	285	293	177
85°	34	64	78	77	77	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1114.0	1114.0	1114.0	1114.0	<i>1114.0</i>
2.5°	<i>1115.0</i>	<i>1115.0</i>	<i>1109.9</i>	<i>1115.0</i>	<i>1116.0</i>
5°	1108.9	1111.0	1105.9	1112.0	<i>1113.0</i>
7.5°	1102.9	1102.9	1099.8	1105.9	<i>1107.0</i>
10°	1091.8	1092.8	1091.8	1098.9	<i>1099.8</i>
12.5°	1077.8	1079.7	1080.8	1087.8	<i>1088.8</i>
15°	1060.6	1063.7	1065.6	1074.7	<i>1076.8</i>
17.5°	1041.5	1044.5	1049.5	1059.6	<i>1061.6</i>
20°	1018.3	1022.3	1028.4	1041.5	<i>1044.5</i>
22.5°	993.2	997.2	1007.3	1019.3	<i>1024.4</i>
25°	963.9	971.9	982.0	998.2	<i>1001.2</i>
27.5°	934.7	941.7	954.8	971.9	<i>976.1</i>
30°	900.5	911.5	927.6	944.8	<i>948.8</i>
32.5°	867.2	878.3	897.4	915.6	<i>920.6</i>
35°	833.0	843.1	863.2	884.3	<i>890.4</i>
37.5°	793.7	806.8	829.0	850.1	<i>856.2</i>
40°	752.4	768.5	793.7	815.9	<i>822.9</i>
42.5°	713.1	730.2	755.4	779.6	<i>787.6</i>
45°	671.8	688.0	718.2	745.4	<i>751.4</i>
47.5°	629.5	647.7	679.8	707.0	<i>717.1</i>
50°	587.2	606.4	640.6	668.8	<i>674.9</i>
52.5°	544.9	565.0	601.3	631.5	<i>634.6</i>
55°	500.6	522.8	561.0	590.3	<i>596.3</i>
57.5°	460.3	479.5	520.7	551.0	<i>558.0</i>
60°	416.0	437.1	481.4	509.7	<i>518.7</i>
62.5°	373.7	395.9	442.2	470.4	<i>478.4</i>
65°	329.4	354.6	399.9	433.1	<i>441.1</i>
67.5°	291.1	315.3	363.6	395.9	<i>403.9</i>
70°	246.7	274.0	325.4	358.6	<i>366.6</i>
72.5°	208.5	236.6	288.1	320.3	<i>332.4</i>
75°	167.2	199.4	250.8	285.1	<i>293.1</i>
77.5°	126.9	164.2	216.5	242.7	<i>242.7</i>
80°	90.7	130.0	178.3	190.4	<i>192.3</i>
82.5°	59.5	97.7	131.9	130.9	<i>130.9</i>
85°	34.2	63.5	78.5	76.6	<i>76.6</i>
87.5°	13.1	26.2	28.2	28.2	<i>27.2</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)