

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: P843015

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843015  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-35-RDP-UNV-B50  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

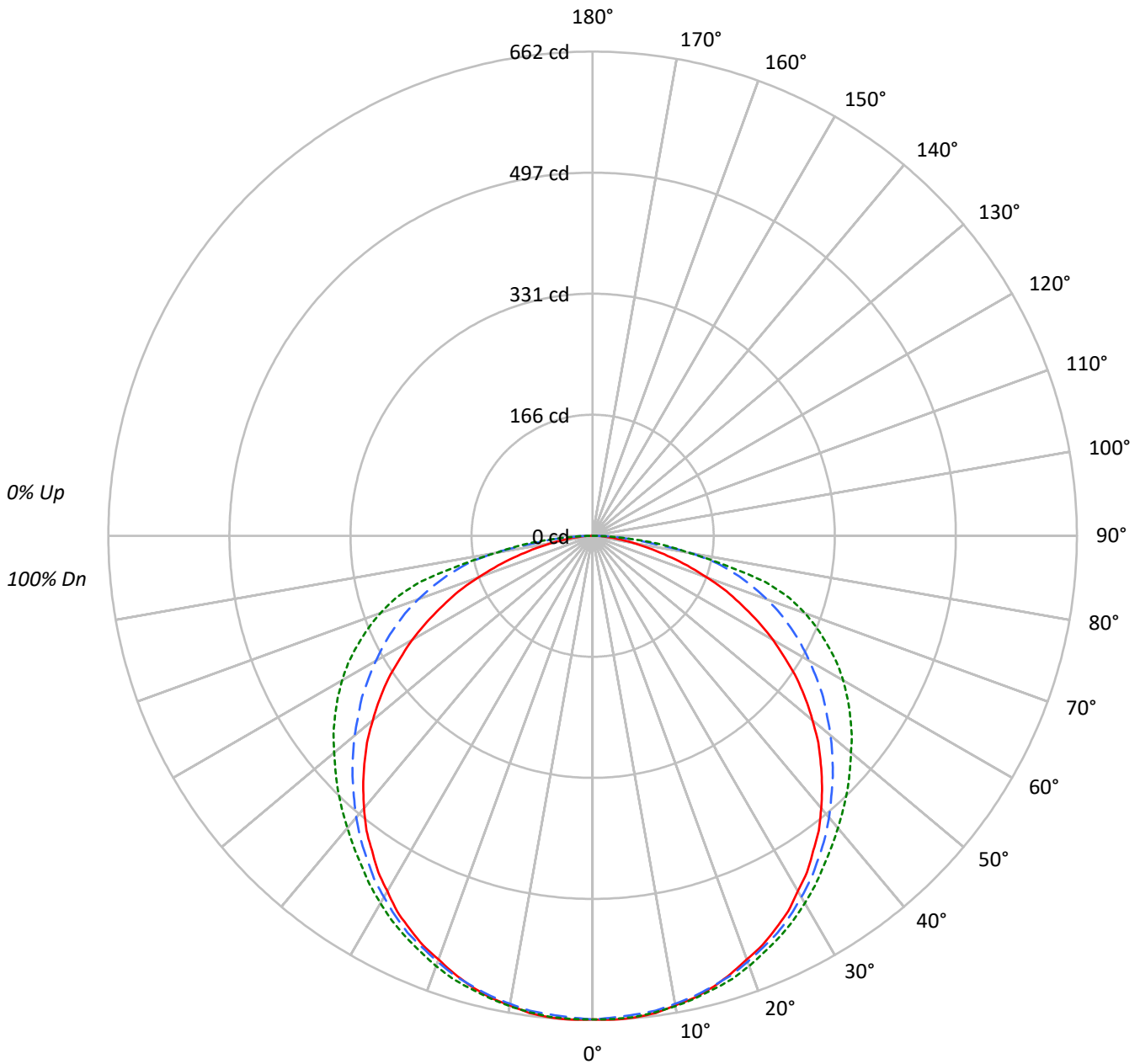
Lumens per Lamp: N/A  
Luminaire Lumens: 2103.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P843015

CATALOG NUMBER: 24CZ2-35-RDP-UNV-B50

### 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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	933	933	933
5°	937	931	935
10°	934	931	936
15°	933	931	937
20°	926	931	940
25°	923	932	942
30°	915	930	945
35°	906	927	949
40°	896	926	961
45°	881	927	983
50°	861	932	1012
55°	839	947	1058
60°	804	966	1116
65°	752	1000	1185
70°	685	1046	1274
75°	580	1104	1331
80°	458	1110	1076
85°	338	845	946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.7	3.0
10°-20°	180.5	8.6
20°-30°	276.1	13.1
30°-40°	337.5	16.0
40°-50°	359.7	17.1
50°-60°	343.9	16.4
60°-70°	291.4	13.9
70°-80°	195.8	9.3
80°-90°	55.3	2.6
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°	519.4	24.7
0°-40°	856.9	40.7
0°-60°	1560.6	74.2
0°-90°	2103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2103.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	661	660	657	660	660	63
15°	638	638	637	643	642	180
25°	592	595	599	604	605	273
35°	526	530	538	549	551	329
45°	441	448	464	484	492	340
55°	341	354	385	415	430	304
65°	225	248	299	339	355	224
75°	106	145	202	237	244	114
85°	21	43	52	56	58	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	661.3	661.3	661.3	661.3	661.3
2.5°	662.3	662.3	659.2	661.3	661.3
5°	661.3	660.3	657.2	660.3	660.3
7.5°	658.2	657.2	655.1	658.2	657.2
10°	651.9	651.9	649.9	653.0	653.0
12.5°	646.7	645.7	644.6	648.8	647.8
15°	638.4	638.4	637.3	642.6	641.5
17.5°	628.0	629.0	630.0	634.2	635.3
20°	616.4	618.6	619.6	625.9	625.9
22.5°	606.0	607.1	609.1	615.4	615.4
25°	592.5	594.6	598.7	604.0	605.0
27.5°	579.0	580.0	585.2	592.5	593.5
30°	561.2	564.4	570.5	579.0	580.0
32.5°	545.5	548.6	555.9	564.4	566.4
35°	525.8	529.9	538.2	548.6	550.8
37.5°	508.0	511.2	521.6	533.0	536.2
40°	486.1	492.3	502.7	516.3	521.6
42.5°	464.2	470.4	483.0	500.7	507.0
45°	441.2	448.5	464.2	484.0	492.3
47.5°	418.3	426.6	444.4	467.3	476.7
50°	392.2	402.6	424.5	450.7	461.1
52.5°	367.1	379.7	403.7	432.9	446.5
55°	341.1	353.6	384.9	415.2	429.8
57.5°	311.9	328.5	363.0	397.5	413.1
60°	284.8	300.4	342.1	379.7	395.3
62.5°	255.6	276.5	321.2	360.9	376.6
65°	225.3	248.3	299.4	339.0	354.7
67.5°	198.2	223.3	277.5	317.1	332.8
70°	165.9	197.1	253.4	293.1	308.8
72.5°	135.6	170.1	228.4	267.0	281.6
75°	106.4	145.0	202.4	236.8	244.1
77.5°	79.2	120.0	175.2	189.8	184.6
80°	56.3	96.0	136.6	129.3	132.4
82.5°	36.5	73.1	84.5	96.0	99.1
85°	20.9	42.8	52.2	56.3	58.4
87.5°	9.4	15.6	20.9	20.9	19.9
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)