

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: P842820

Luminaire Tested: **14CZ2-25-RDP-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-25-RDP-UNV-B50  
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

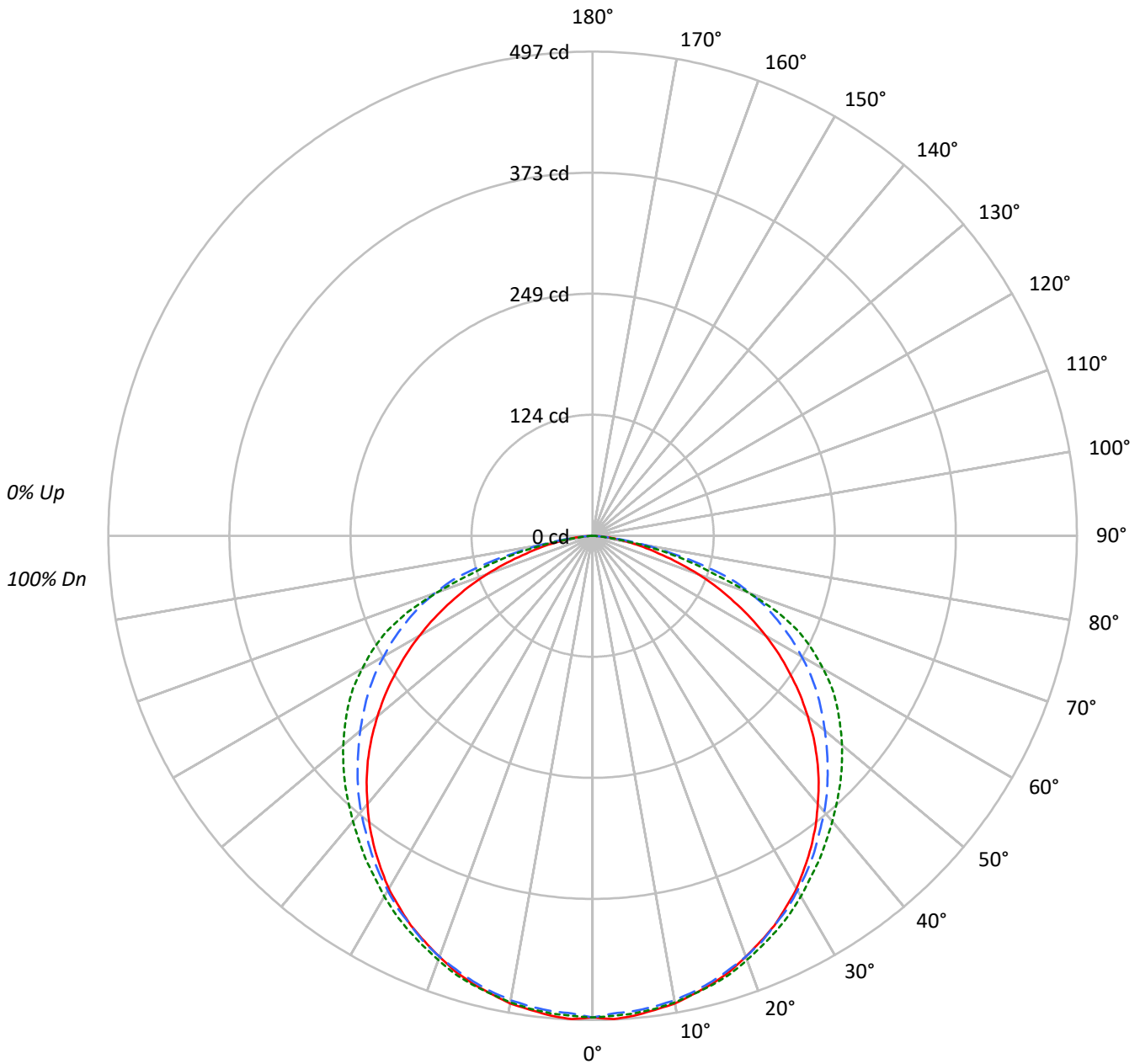
Lumens per Lamp: N/A  
Luminaire Lumens: 1476.0 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
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

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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	1396	1396	1396
5°	1401	1388	1394
10°	1397	1387	1394
15°	1391	1384	1394
20°	1381	1381	1392
25°	1375	1375	1392
30°	1364	1371	1393
35°	1346	1366	1398
40°	1325	1363	1410
45°	1302	1362	1435
50°	1265	1367	1468
55°	1219	1384	1508
60°	1158	1398	1542
65°	1070	1416	1562
70°	952	1427	1398
75°	767	1281	1118
80°	600	901	730
85°	411	262	188



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.8	3.2
10°-20°	134.2	9.1
20°-30°	204.4	13.8
30°-40°	249.0	16.9
40°-50°	264.1	17.9
50°-60°	249.3	16.9
60°-70°	201.3	13.6
70°-80°	109.2	7.4
80°-90°	17.7	1.2
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°	385.4	26.1
0°-40°	634.4	43.0
0°-60°	1147.9	77.8
0°-90°	1476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1476.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	494	493	490	493	492	47
15°	476	475	474	477	477	134
25°	441	440	441	446	447	203
35°	391	393	396	404	406	244
45°	326	331	341	354	360	251
55°	248	258	281	300	306	221
65°	160	180	212	229	234	159
75°	70	102	118	106	102	77
85°	13	14	8	7	6	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	494.4	494.4	494.4	494.4	494.4
2.5°	496.6	494.4	490.8	494.4	493.2
5°	494.4	493.2	489.7	493.2	492.1
7.5°	490.8	490.8	487.4	489.7	489.7
10°	487.4	486.3	484.0	487.4	486.3
12.5°	481.6	480.5	479.4	482.8	481.6
15°	475.9	474.7	473.6	477.1	477.1
17.5°	468.9	467.8	466.7	471.3	471.3
20°	459.7	459.7	459.7	464.4	463.3
22.5°	450.6	450.6	451.7	456.4	455.2
25°	441.4	440.3	441.4	445.9	447.0
27.5°	429.8	430.9	432.1	436.7	437.9
30°	418.4	419.5	420.6	426.4	427.5
32.5°	404.5	406.8	409.0	416.0	416.0
35°	390.7	392.9	396.5	404.5	405.7
37.5°	375.7	378.0	382.6	391.8	394.1
40°	359.5	363.0	369.9	379.1	382.6
42.5°	343.4	348.0	356.1	366.4	371.0
45°	326.1	330.7	341.1	353.8	359.5
47.5°	307.6	313.4	326.1	342.2	346.9
50°	288.1	296.2	311.2	328.4	334.2
52.5°	268.5	277.7	296.2	314.6	320.3
55°	247.7	258.1	281.2	299.6	306.5
57.5°	227.0	238.6	265.0	284.6	291.5
60°	205.1	218.9	247.7	267.4	273.2
62.5°	183.2	199.3	230.5	250.0	254.7
65°	160.2	179.8	212.0	229.4	233.9
67.5°	138.3	161.3	193.6	206.2	206.2
70°	115.3	140.5	172.9	176.3	169.4
72.5°	92.2	121.0	149.9	137.1	131.4
75°	70.3	102.5	117.5	106.1	102.5
77.5°	53.0	82.9	82.9	76.0	73.7
80°	36.9	63.4	55.4	48.4	44.9
82.5°	24.2	35.7	28.8	23.0	19.6
85°	12.7	13.8	8.1	6.9	5.8
87.5°	4.7	2.3	1.1	2.3	1.1
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)