

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: P732297

Luminaire Tested: **24CZ2-50-RDP-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732297  
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: 24CZ2-50-RDP-B2750-W2D-3000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

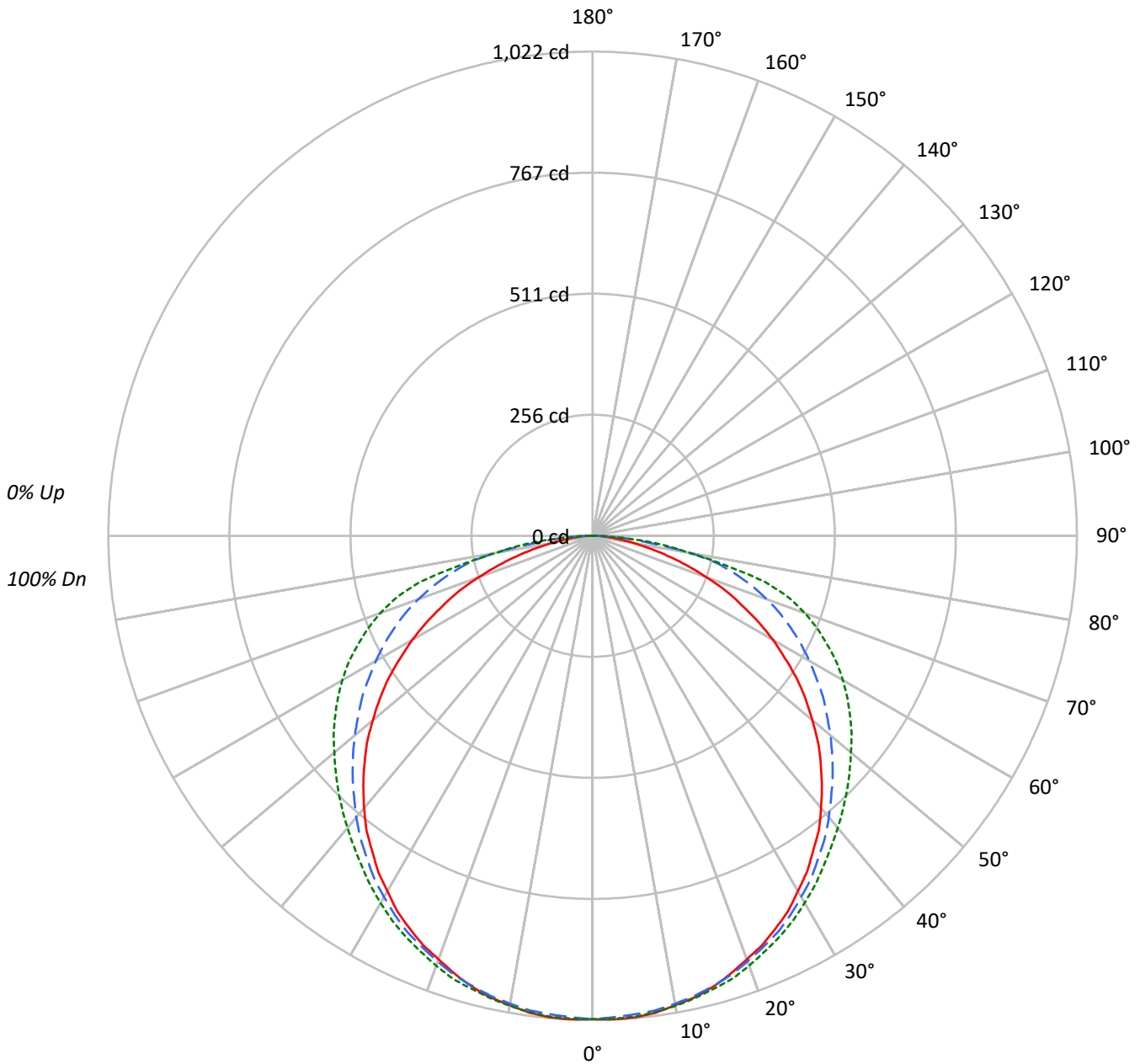
Lumens per Lamp: N/A  
Luminaire Lumens: 3245.0 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 40  
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					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	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°	1440	1440	1440
5°	1446	1437	1444
10°	1442	1437	1444
15°	1439	1437	1446
20°	1429	1436	1450
25°	1424	1439	1454
30°	1411	1435	1458
35°	1398	1431	1464
40°	1382	1429	1483
45°	1359	1430	1516
50°	1329	1438	1562
55°	1295	1461	1632
60°	1240	1490	1722
65°	1161	1543	1828
70°	1056	1614	1966
75°	895	1703	2054
80°	706	1713	1661
85°	521	1304	1459



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.8	3.0
10°-20°	278.6	8.6
20°-30°	426.0	13.1
30°-40°	520.8	16.0
40°-50°	555.1	17.1
50°-60°	530.7	16.4
60°-70°	449.6	13.9
70°-80°	302.2	9.3
80°-90°	85.2	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°	801.4	24.7
0°-40°	1322.2	40.7
0°-60°	2408.0	74.2
0°-90°	3245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3245.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	1020	1019	1014	1019	1019	97
15°	985	985	983	992	990	278
25°	914	917	924	932	934	421
35°	811	818	830	847	850	508
45°	681	692	716	747	760	525
55°	526	546	594	641	663	469
65°	348	383	462	523	547	345
75°	164	224	312	366	377	176
85°	32	66	80	87	90	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1020.5	1020.5	1020.5	1020.5	1020.5
2.5°	1022.0	1022.0	1017.2	1020.5	1020.5
5°	1020.5	1018.9	1014.1	1018.9	1018.9
7.5°	1015.6	1014.1	1010.8	1015.6	1014.1
10°	1005.9	1005.9	1002.8	1007.7	1007.7
12.5°	998.0	996.4	994.7	1001.1	999.5
15°	985.1	985.1	983.4	991.6	989.8
17.5°	969.0	970.6	972.1	978.5	980.3
20°	951.2	954.5	956.0	965.7	965.7
22.5°	935.1	936.8	939.9	949.6	949.6
25°	914.3	917.4	923.8	932.0	933.5
27.5°	893.3	894.9	903.1	914.3	915.9
30°	866.0	870.8	880.3	893.3	894.9
32.5°	841.7	846.6	857.8	870.8	873.9
35°	811.3	817.7	830.5	846.6	849.9
37.5°	783.9	788.7	804.8	822.5	827.4
40°	750.1	759.6	775.7	796.7	804.8
42.5°	716.3	725.9	745.3	772.6	782.3
45°	680.8	692.1	716.3	746.8	759.6
47.5°	645.5	658.3	685.7	721.0	735.6
50°	605.1	621.2	655.0	695.4	711.5
52.5°	566.5	585.9	623.0	668.0	689.0
55°	526.3	545.6	593.9	640.7	663.2
57.5°	481.3	506.9	560.1	613.3	637.4
60°	439.4	463.5	527.9	585.9	610.0
62.5°	394.4	426.6	495.7	556.8	581.1
65°	347.6	383.1	461.9	523.0	547.3
67.5°	305.9	344.5	428.1	489.3	513.5
70°	256.0	304.1	391.1	452.2	476.5
72.5°	209.2	262.4	352.4	412.0	434.5
75°	164.2	223.8	312.3	365.5	376.7
77.5°	122.3	185.2	270.4	292.9	284.9
80°	86.9	148.1	210.8	199.5	204.4
82.5°	56.3	112.8	130.4	148.1	152.9
85°	32.2	66.0	80.5	86.9	90.1
87.5°	14.6	24.1	32.2	32.2	30.7
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)