

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: P732322

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732322  
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: 24CZ2-50HE-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**

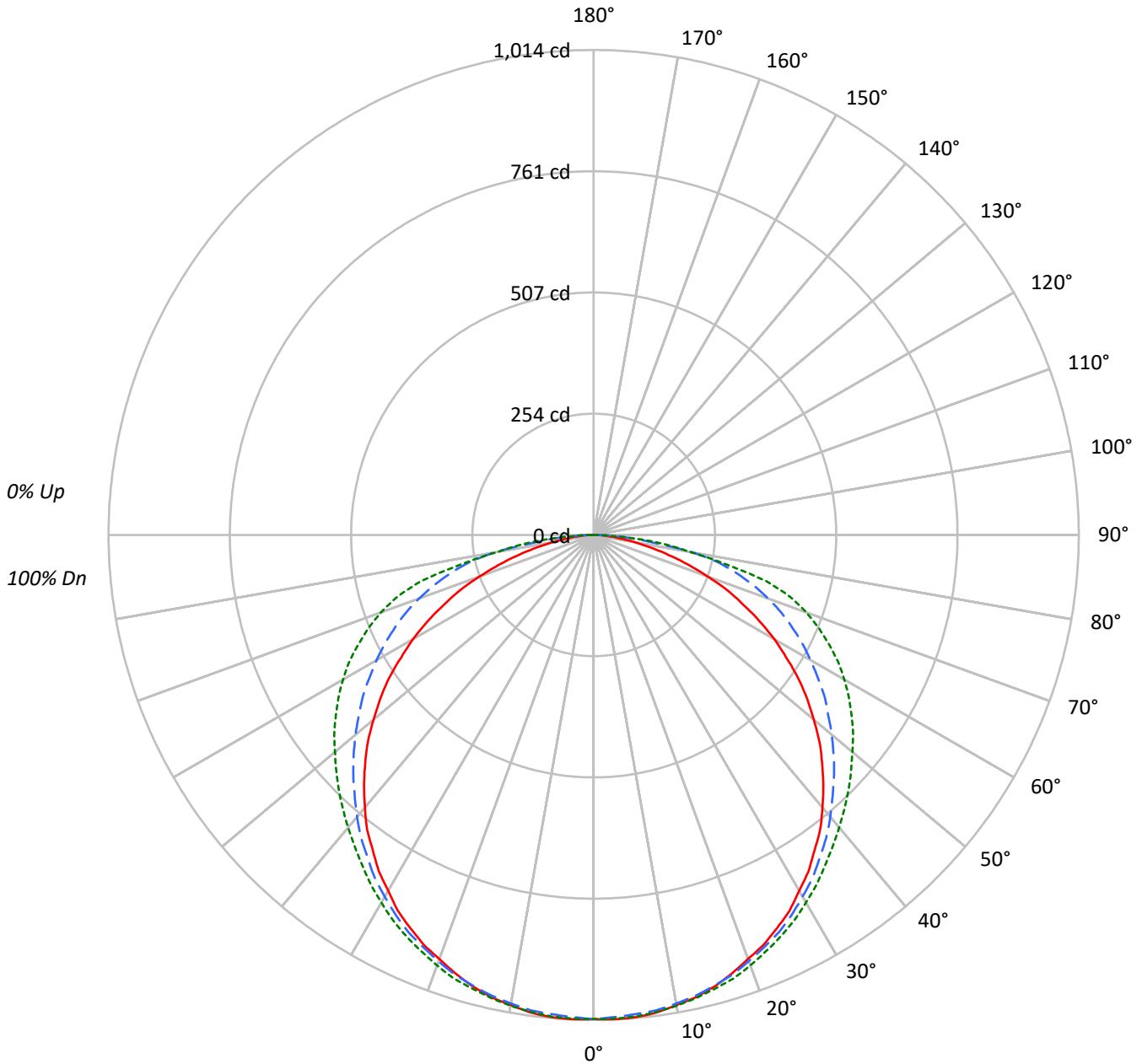
Lumens per Lamp: N/A  
Luminaire Lumens: 3219.0 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
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°	1429	1429	1429
5°	1434	1425	1432
10°	1430	1426	1433
15°	1428	1425	1435
20°	1417	1424	1439
25°	1412	1427	1442
30°	1400	1423	1447
35°	1387	1419	1453
40°	1371	1418	1471
45°	1348	1418	1504
50°	1318	1427	1550
55°	1285	1450	1619
60°	1230	1478	1708
65°	1151	1530	1813
70°	1048	1601	1950
75°	888	1689	2038
80°	701	1699	1647
85°	518	1294	1446



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	3.0
10°-20°	276.4	8.6
20°-30°	422.6	13.1
30°-40°	516.6	16.0
40°-50°	550.6	17.1
50°-60°	526.5	16.4
60°-70°	446.0	13.9
70°-80°	299.7	9.3
80°-90°	84.6	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°	795.0	24.7
0°-40°	1311.6	40.7
0°-60°	2388.7	74.2
0°-90°	3219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3219.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1012	1011	1006	1011	1011	96
15°	977	977	976	984	982	276
25°	907	910	916	924	926	418
35°	805	811	824	840	843	504
45°	675	686	711	741	754	521
55°	522	541	589	636	658	465
65°	345	380	458	519	543	342
75°	163	222	310	362	374	174
85°	32	66	80	86	89	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1012.3	1012.3	1012.3	1012.3	1012.3
2.5°	1013.8	1013.8	1009.0	1012.3	1012.3
5°	1012.3	1010.8	1005.9	1010.8	1010.8
7.5°	1007.5	1005.9	1002.7	1007.5	1005.9
10°	997.9	997.9	994.8	999.6	999.6
12.5°	990.0	988.4	986.7	993.0	991.5
15°	977.3	977.3	975.5	983.6	981.9
17.5°	961.3	962.8	964.4	970.7	972.4
20°	943.6	946.8	948.4	958.0	958.0
22.5°	927.6	929.3	932.4	942.0	942.0
25°	907.0	910.1	916.4	924.5	926.0
27.5°	886.2	887.7	895.8	907.0	908.5
30°	859.0	863.9	873.3	886.2	887.7
32.5°	835.0	839.8	851.0	863.9	866.9
35°	804.8	811.1	823.8	839.8	843.1
37.5°	777.6	782.4	798.4	815.9	820.7
40°	744.1	753.5	769.5	790.3	798.4
42.5°	710.6	720.0	739.3	766.4	776.1
45°	675.4	686.5	710.6	740.8	753.5
47.5°	640.3	653.0	680.2	715.2	729.7
50°	600.3	616.3	649.8	689.8	705.8
52.5°	562.0	581.2	618.0	662.7	683.5
55°	522.1	541.2	589.1	635.5	657.9
57.5°	477.5	502.9	555.6	608.4	632.3
60°	435.9	459.7	523.7	581.2	605.1
62.5°	391.2	423.2	491.7	552.4	576.4
65°	344.8	380.0	458.2	518.9	542.9
67.5°	303.4	341.7	424.7	485.4	509.4
70°	253.9	301.7	387.9	448.6	472.6
72.5°	207.5	260.3	349.6	408.7	431.1
75°	162.9	222.0	309.8	362.5	373.7
77.5°	121.3	183.7	268.2	290.5	282.6
80°	86.3	146.9	209.1	197.9	202.7
82.5°	55.8	111.9	129.4	146.9	151.7
85°	32.0	65.5	79.9	86.3	89.3
87.5°	14.4	23.9	32.0	32.0	30.4
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)