

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: P843060

Luminaire Tested: **24CZ2-40HE-RDP-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843060  
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: 24CZ2-40HE-RDP-UNV-B50  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

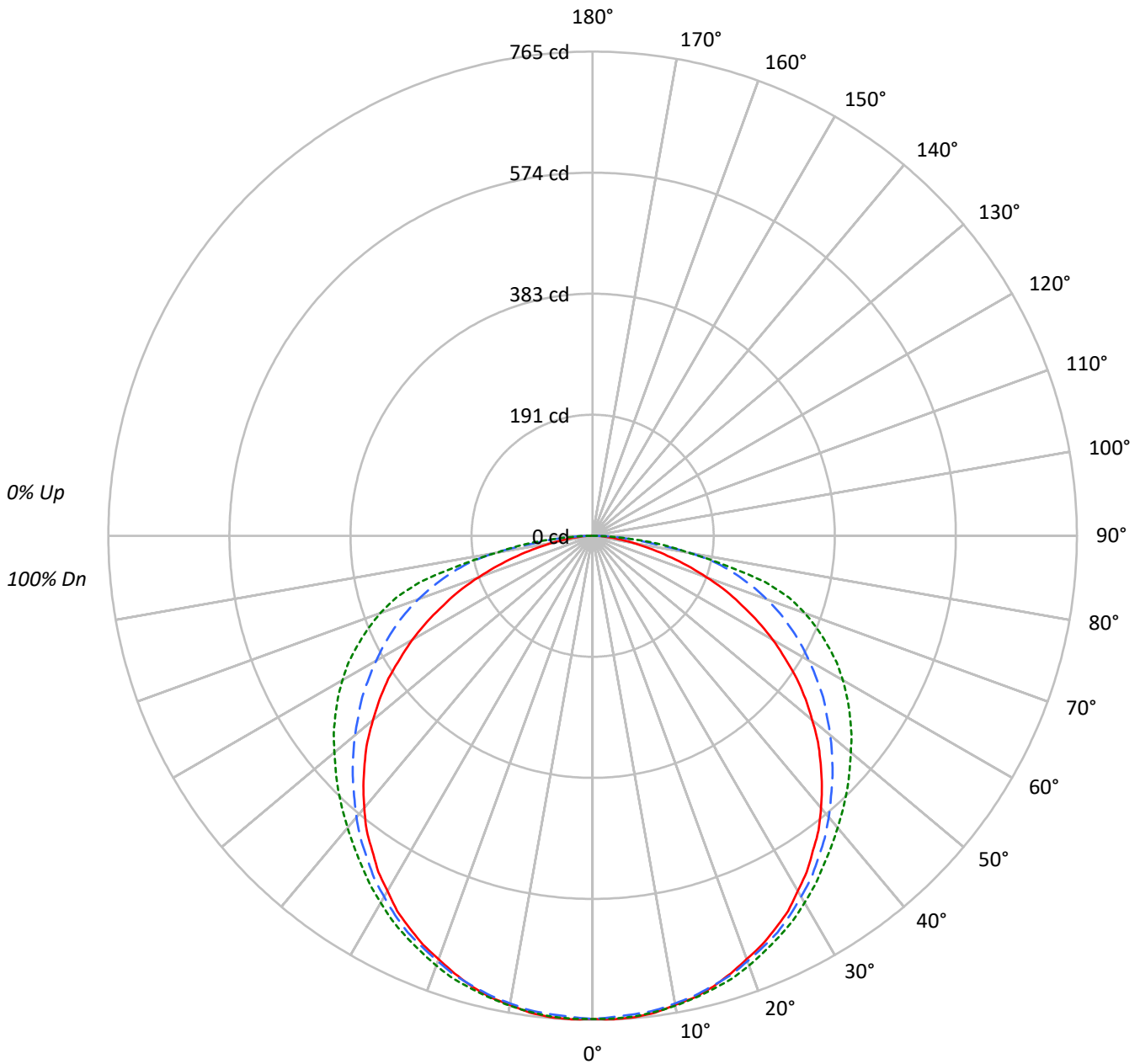
Lumens per Lamp: N/A  
Luminaire Lumens: 2428.0 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 29  
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: P843060

CATALOG NUMBER: 24CZ2-40HE-RDP-UNV-B50

### Luminous Intensity Polar Plot





TEST NUMBER: P843060

CATALOG NUMBER: 24CZ2-40HE-RDP-UNV-B50

**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°	1078	1078	1078
5°	1082	1075	1080
10°	1079	1075	1081
15°	1077	1075	1082
20°	1069	1074	1085
25°	1065	1076	1088
30°	1056	1073	1091
35°	1046	1071	1096
40°	1034	1069	1109
45°	1017	1070	1134
50°	994	1076	1169
55°	969	1093	1221
60°	928	1115	1288
65°	869	1154	1368
70°	790	1207	1471
75°	670	1274	1537
80°	529	1282	1243
85°	390	976	1091



TEST NUMBER: P843060  
 CATALOG NUMBER: 24CZ2-40HE-RDP-UNV-B50

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.4	3.0
10°-20°	208.5	8.6
20°-30°	318.8	13.1
30°-40°	389.7	16.0
40°-50°	415.3	17.1
50°-60°	397.1	16.4
60°-70°	336.4	13.9
70°-80°	226.1	9.3
80°-90°	63.8	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°	599.6	24.7
0°-40°	989.3	40.7
0°-60°	1801.8	74.2
0°-90°	2428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2428.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	764	762	759	762	762	73
15°	737	737	736	742	741	208
25°	684	686	691	697	698	315
35°	607	612	621	633	636	380
45°	509	518	536	559	568	393
55°	394	408	444	479	496	351
65°	260	287	346	391	410	258
75°	123	167	234	273	282	132
85°	24	49	60	65	67	30
90°	0	0	0	0	0	



TEST NUMBER: P843060

CATALOG NUMBER: 24CZ2-40HE-RDP-UNV-B50

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	763.5	763.5	763.5	763.5	763.5
2.5°	764.7	764.7	761.1	763.5	763.5
5°	763.5	762.4	758.8	762.4	762.4
7.5°	759.9	758.8	756.3	759.9	758.8
10°	752.7	752.7	750.3	754.0	754.0
12.5°	746.7	745.5	744.2	749.0	747.9
15°	737.1	737.1	735.8	741.9	740.6
17.5°	725.1	726.2	727.4	732.2	733.5
20°	711.7	714.2	715.3	722.6	722.6
22.5°	699.6	701.0	703.3	710.5	710.5
25°	684.1	686.4	691.2	697.3	698.5
27.5°	668.4	669.6	675.7	684.1	685.3
30°	648.0	651.6	658.7	668.4	669.6
32.5°	629.8	633.4	641.9	651.6	653.9
35°	607.0	611.8	621.4	633.4	635.9
37.5°	586.5	590.2	602.2	615.4	619.1
40°	561.3	568.4	580.4	596.1	602.2
42.5°	536.0	543.1	557.6	578.1	585.4
45°	509.4	517.8	536.0	558.8	568.4
47.5°	483.0	492.6	513.0	539.5	550.4
50°	452.8	464.8	490.1	520.3	532.4
52.5°	423.9	438.4	466.1	499.8	515.5
55°	393.8	408.2	444.4	479.4	496.2
57.5°	360.1	379.3	419.1	458.9	476.9
60°	328.8	346.8	395.0	438.4	456.4
62.5°	295.1	319.2	370.9	416.6	434.8
65°	260.1	286.7	345.6	391.4	409.5
67.5°	228.9	257.8	320.3	366.1	384.2
70°	191.5	227.6	292.6	338.4	356.5
72.5°	156.5	196.3	263.7	308.3	325.1
75°	122.9	167.4	233.7	273.4	281.9
77.5°	91.5	138.5	202.3	219.1	213.2
80°	65.1	110.8	157.7	149.3	152.9
82.5°	42.1	84.4	97.6	110.8	114.4
85°	24.1	49.4	60.3	65.1	67.4
87.5°	10.9	18.0	24.1	24.1	22.9
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)