

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: P843120

Luminaire Tested: **24CZ2-50HE-RDP-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843120
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-UNV-B50
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

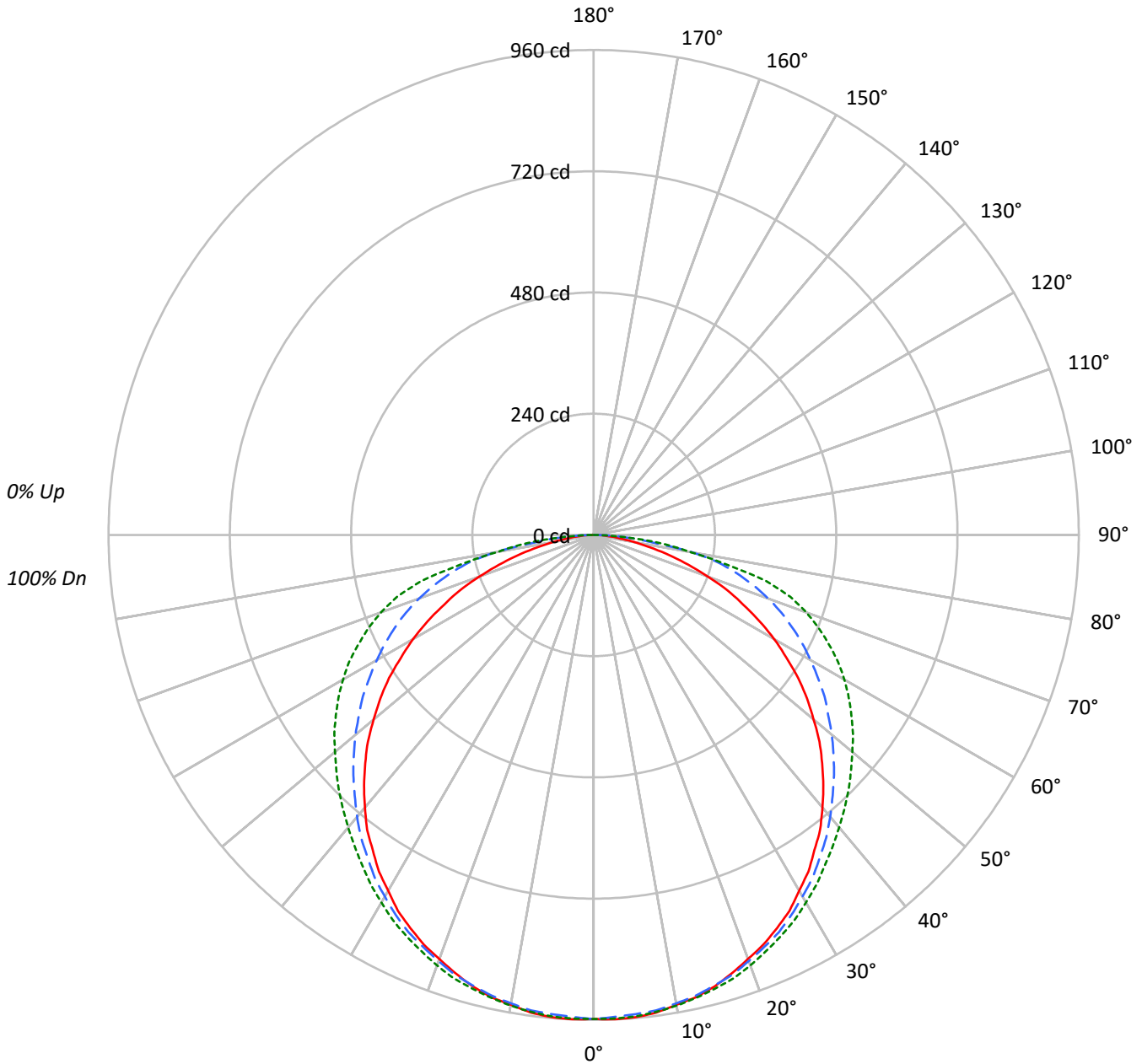
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3047.0 lumens
Efficiency: N/A
Efficacy: 82.4 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_{in}): 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: P843120
CATALOG NUMBER: 24CZ2-50HE-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°	1352	1352	1352
5°	1358	1349	1355
10°	1354	1349	1356
15°	1352	1349	1358
20°	1341	1348	1362
25°	1337	1351	1365
30°	1325	1347	1369
35°	1313	1344	1375
40°	1298	1342	1392
45°	1276	1342	1424
50°	1248	1351	1467
55°	1216	1372	1532
60°	1165	1399	1617
65°	1090	1448	1716
70°	992	1515	1846
75°	841	1599	1929
80°	663	1608	1560
85°	491	1224	1370



TEST NUMBER: P843120

CATALOG NUMBER: 24CZ2-50HE-RDP-UNV-B50

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	3.0
10°-20°	261.6	8.6
20°-30°	400.0	13.1
30°-40°	489.0	16.0
40°-50°	521.2	17.1
50°-60°	498.4	16.4
60°-70°	422.1	13.9
70°-80°	283.7	9.3
80°-90°	80.0	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°	752.5	24.7
0°-40°	1241.5	40.7
0°-60°	2261.1	74.2
0°-90°	3047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	958	957	952	957	957	91
15°	925	925	923	931	929	261
25°	858	861	867	875	877	396
35°	762	768	780	795	798	477
45°	639	650	673	701	713	493
55°	494	512	558	602	623	440
65°	326	360	434	491	514	324
75°	154	210	293	343	354	165
85°	30	62	76	82	85	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.2	958.2	958.2	958.2	958.2
2.5°	959.7	959.7	955.1	958.2	958.2
5°	958.2	956.7	952.2	956.7	956.7
7.5°	953.6	952.2	949.1	953.6	952.2
10°	944.5	944.5	941.6	946.2	946.2
12.5°	937.1	935.6	934.0	940.0	938.5
15°	925.0	925.0	923.4	931.1	929.4
17.5°	909.9	911.4	912.8	918.8	920.5
20°	893.1	896.2	897.7	906.8	906.8
22.5°	878.0	879.7	882.6	891.7	891.7
25°	858.5	861.4	867.4	875.1	876.6
27.5°	838.8	840.3	848.0	858.5	860.0
30°	813.1	817.7	826.6	838.8	840.3
32.5°	790.4	794.9	805.5	817.7	820.6
35°	761.8	767.8	779.8	794.9	798.0
37.5°	736.1	740.6	755.7	772.3	776.9
40°	704.3	713.3	728.4	748.1	755.7
42.5°	672.6	681.6	699.8	725.5	734.6
45°	639.3	649.9	672.6	701.2	713.3
47.5°	606.1	618.1	643.8	677.0	690.7
50°	568.2	583.3	615.1	653.0	668.1
52.5°	532.0	550.2	585.0	627.3	646.9
55°	494.2	512.3	557.6	601.6	622.7
57.5°	451.9	476.0	525.9	575.9	598.5
60°	412.6	435.2	495.7	550.2	572.8
62.5°	370.3	400.6	465.4	522.8	545.6
65°	326.4	359.7	433.7	491.1	513.9
67.5°	287.2	323.5	402.0	459.4	482.2
70°	240.4	285.6	367.2	424.6	447.4
72.5°	196.5	246.4	330.9	386.9	408.0
75°	154.2	210.1	293.2	343.2	353.7
77.5°	114.8	173.9	253.9	275.0	267.5
80°	81.6	139.0	197.9	187.3	191.9
82.5°	52.8	105.9	122.5	139.0	143.6
85°	30.3	62.0	75.6	81.6	84.6
87.5°	13.7	22.6	30.3	30.3	28.8
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)