

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: P843045

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843045
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: 24CZ2-40-RDP-UNV-B50
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

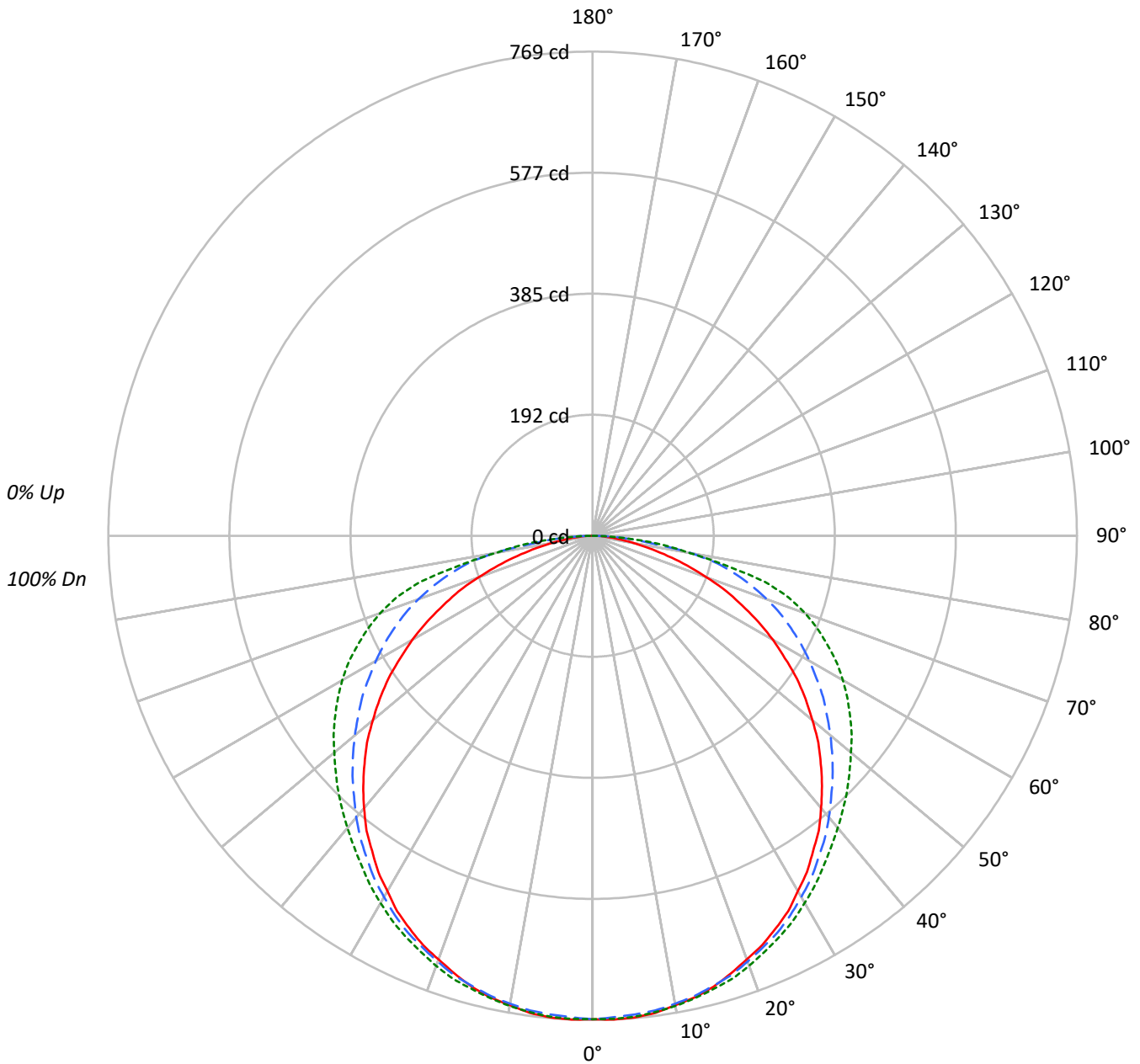
Lumens per Lamp: N/A
Luminaire Lumens: 2442.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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

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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	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	68	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°	1084	1084	1084
5°	1088	1081	1086
10°	1085	1082	1087
15°	1083	1081	1088
20°	1075	1081	1092
25°	1072	1083	1094
30°	1062	1080	1098
35°	1052	1077	1102
40°	1040	1076	1116
45°	1023	1076	1141
50°	1000	1082	1176
55°	975	1100	1228
60°	933	1121	1296
65°	874	1161	1376
70°	795	1214	1480
75°	674	1281	1546
80°	532	1289	1250
85°	392	981	1098



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	3.0
10°-20°	209.7	8.6
20°-30°	320.6	13.1
30°-40°	391.9	16.0
40°-50°	417.7	17.1
50°-60°	399.4	16.4
60°-70°	338.3	13.9
70°-80°	227.4	9.3
80°-90°	64.1	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°	603.1	24.7
0°-40°	995.0	40.7
0°-60°	1812.1	74.2
0°-90°	2442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	768	767	763	767	767	73
15°	741	741	740	746	745	209
25°	688	690	695	701	702	317
35°	610	615	625	637	640	382
45°	512	521	539	562	572	395
55°	396	411	447	482	499	353
65°	262	288	348	394	412	260
75°	124	168	235	275	284	132
85°	24	50	61	65	68	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.9	767.9	767.9	767.9	767.9
2.5°	769.1	769.1	765.5	767.9	767.9
5°	767.9	766.8	763.1	766.8	766.8
7.5°	764.3	763.1	760.6	764.3	763.1
10°	757.0	757.0	754.7	758.3	758.3
12.5°	751.0	749.8	748.5	753.3	752.2
15°	741.4	741.4	740.1	746.2	744.9
17.5°	729.2	730.4	731.6	736.4	737.7
20°	715.8	718.3	719.5	726.8	726.8
22.5°	703.7	705.0	707.3	714.6	714.6
25°	688.1	690.4	695.2	701.3	702.5
27.5°	672.3	673.5	679.6	688.1	689.2
30°	651.7	655.3	662.5	672.3	673.5
32.5°	633.4	637.1	645.6	655.3	657.7
35°	610.5	615.3	625.0	637.1	639.6
37.5°	589.9	593.6	605.7	619.0	622.6
40°	564.5	571.7	583.8	599.5	605.7
42.5°	539.1	546.2	560.8	581.4	588.7
45°	512.4	520.8	539.1	562.0	571.7
47.5°	485.8	495.4	516.0	542.6	553.5
50°	455.4	467.5	492.9	523.3	535.4
52.5°	426.3	440.9	468.8	502.7	518.5
55°	396.1	410.6	446.9	482.1	499.1
57.5°	362.2	381.5	421.5	461.5	479.6
60°	330.7	348.8	397.3	440.9	459.0
62.5°	296.8	321.0	373.0	419.0	437.3
65°	261.6	288.3	347.6	393.6	411.9
67.5°	230.2	259.2	322.2	368.2	386.5
70°	192.6	228.9	294.3	340.3	358.6
72.5°	157.4	197.5	265.2	310.1	327.0
75°	123.6	168.4	235.0	275.0	283.5
77.5°	92.0	139.3	203.5	220.4	214.4
80°	65.4	111.4	158.6	150.1	153.8
82.5°	42.4	84.9	98.1	111.4	115.1
85°	24.2	49.7	60.6	65.4	67.8
87.5°	11.0	18.1	24.2	24.2	23.1
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)