

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: P842828

Luminaire Tested: **14CZ2-25-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-UNV-B40
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

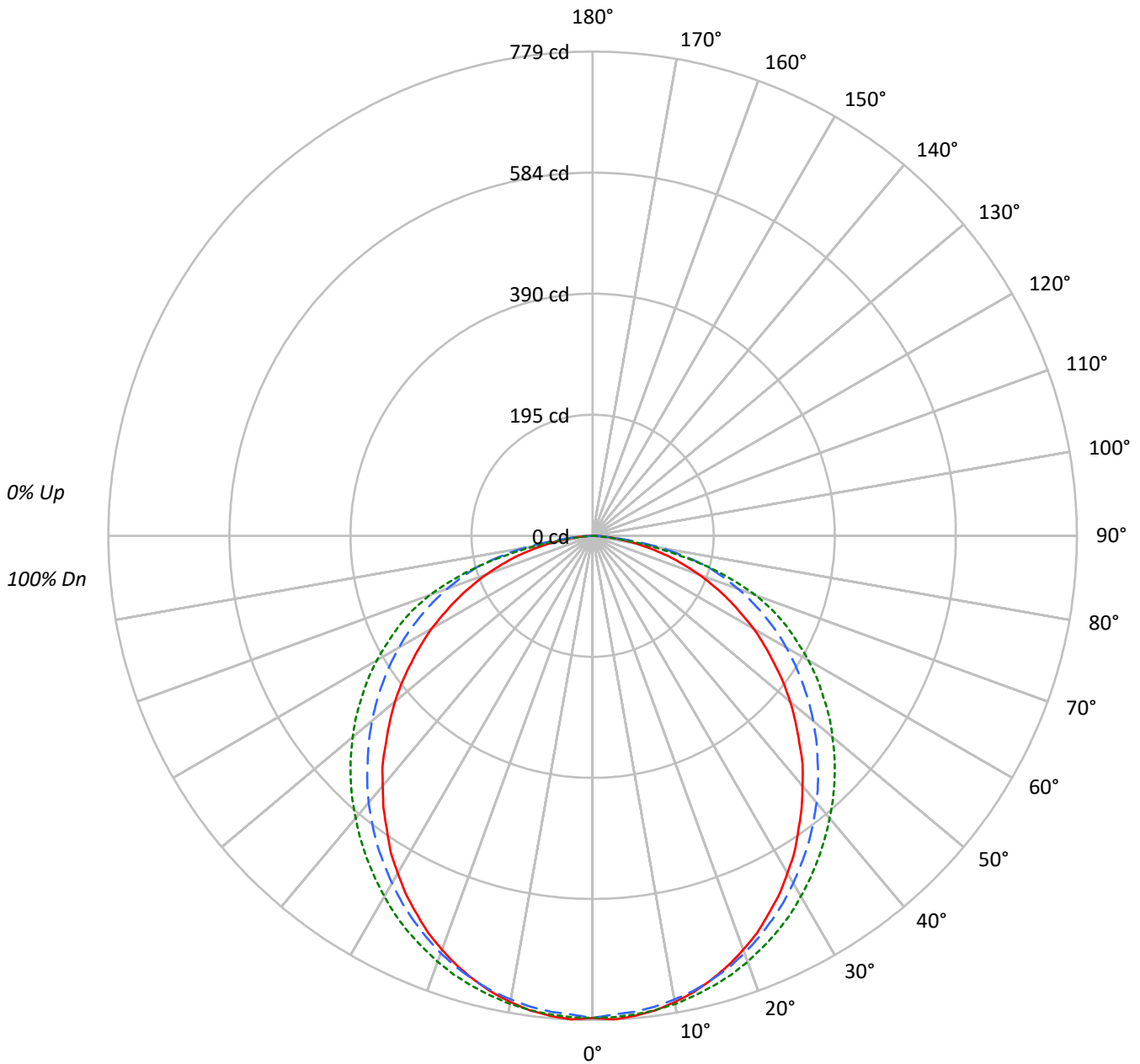
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2252.0 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): 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: P842828
CATALOG NUMBER: 14CZ2-25-UNV-B40

Luminous Intensity Polar Plot





TEST NUMBER: P842828

CATALOG NUMBER: 14CZ2-25-UNV-B40

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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2190	2190	2190
5°	2197	2178	2191
10°	2183	2172	2192
15°	2160	2161	2191
20°	2128	2147	2190
25°	2088	2125	2188
30°	2043	2103	2183
35°	1988	2085	2182
40°	1935	2065	2185
45°	1876	2042	2197
50°	1821	2033	2211
55°	1752	2027	2231
60°	1690	2030	2263
65°	1603	2036	2298
70°	1505	2052	2295
75°	1363	2070	2077
80°	1118	1786	1476
85°	829	845	340



TEST NUMBER: P842828

CATALOG NUMBER: 14CZ2-25-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	3.3
10°-20°	209.7	9.3
20°-30°	315.9	14.0
30°-40°	379.1	16.8
40°-50°	395.1	17.5
50°-60°	365.8	16.2
60°-70°	295.5	13.1
70°-80°	180.2	8.0
80°-90°	37.2	1.7
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°	599.0	26.6
0°-40°	978.1	43.4
0°-60°	1739.0	77.2
0°-90°	2252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	775	773	769	774	773	74
15°	739	740	740	750	750	208
25°	670	674	682	700	703	309
35°	577	586	605	627	633	361
45°	470	484	512	540	550	363
55°	356	375	412	444	453	319
65°	240	264	305	335	344	237
75°	125	153	190	193	190	131
85°	26	38	26	14	10	31
90°	0	0	0	0	0	



TEST NUMBER: P842828

CATALOG NUMBER: 14CZ2-25-UNV-B40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.8	775.8	775.8	775.8	775.8
2.5°	778.9	776.4	770.9	776.4	775.3
5°	775.3	773.3	768.8	774.3	773.3
7.5°	770.3	768.2	764.2	770.9	769.8
10°	761.7	760.8	757.7	765.3	764.8
12.5°	751.8	751.2	749.7	758.3	757.7
15°	739.2	739.6	739.6	749.7	749.7
17.5°	725.1	726.1	728.1	739.2	740.7
20°	708.5	710.6	714.6	727.2	729.1
22.5°	691.5	693.0	699.0	714.0	716.1
25°	670.4	674.4	682.4	699.5	702.6
27.5°	650.3	653.8	664.8	682.4	687.5
30°	626.7	632.2	645.3	664.4	669.9
32.5°	604.1	610.1	625.1	647.3	652.2
35°	577.0	586.0	605.1	627.2	633.2
37.5°	552.4	560.9	582.6	606.6	613.7
40°	525.2	535.8	560.4	586.0	593.1
42.5°	500.2	510.1	536.8	562.9	572.5
45°	470.0	484.1	511.6	540.3	550.4
47.5°	442.4	456.5	488.1	518.7	527.8
50°	414.7	429.8	463.0	494.6	503.6
52.5°	386.1	402.3	437.8	469.5	480.1
55°	356.0	374.6	411.8	443.9	453.4
57.5°	327.4	346.4	386.1	418.7	428.3
60°	299.3	318.9	359.6	390.7	400.8
62.5°	268.2	291.3	333.4	364.0	371.6
65°	240.0	263.6	304.8	335.4	344.0
67.5°	210.4	236.0	277.2	305.2	313.4
70°	182.3	208.9	248.6	274.7	278.1
72.5°	152.2	179.3	219.4	236.0	236.0
75°	125.0	152.6	189.8	192.9	190.4
77.5°	95.4	126.1	150.1	144.1	138.1
80°	68.8	99.0	109.9	99.0	90.8
82.5°	46.2	71.7	66.2	52.7	46.7
85°	25.6	38.2	26.1	14.5	10.5
87.5°	9.5	8.6	2.5	2.5	2.5
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)