

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: P842813

Luminaire Tested: **14CZ2-20-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842813
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: 14CZ2-20-UNV-B40
Description: 1X4 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

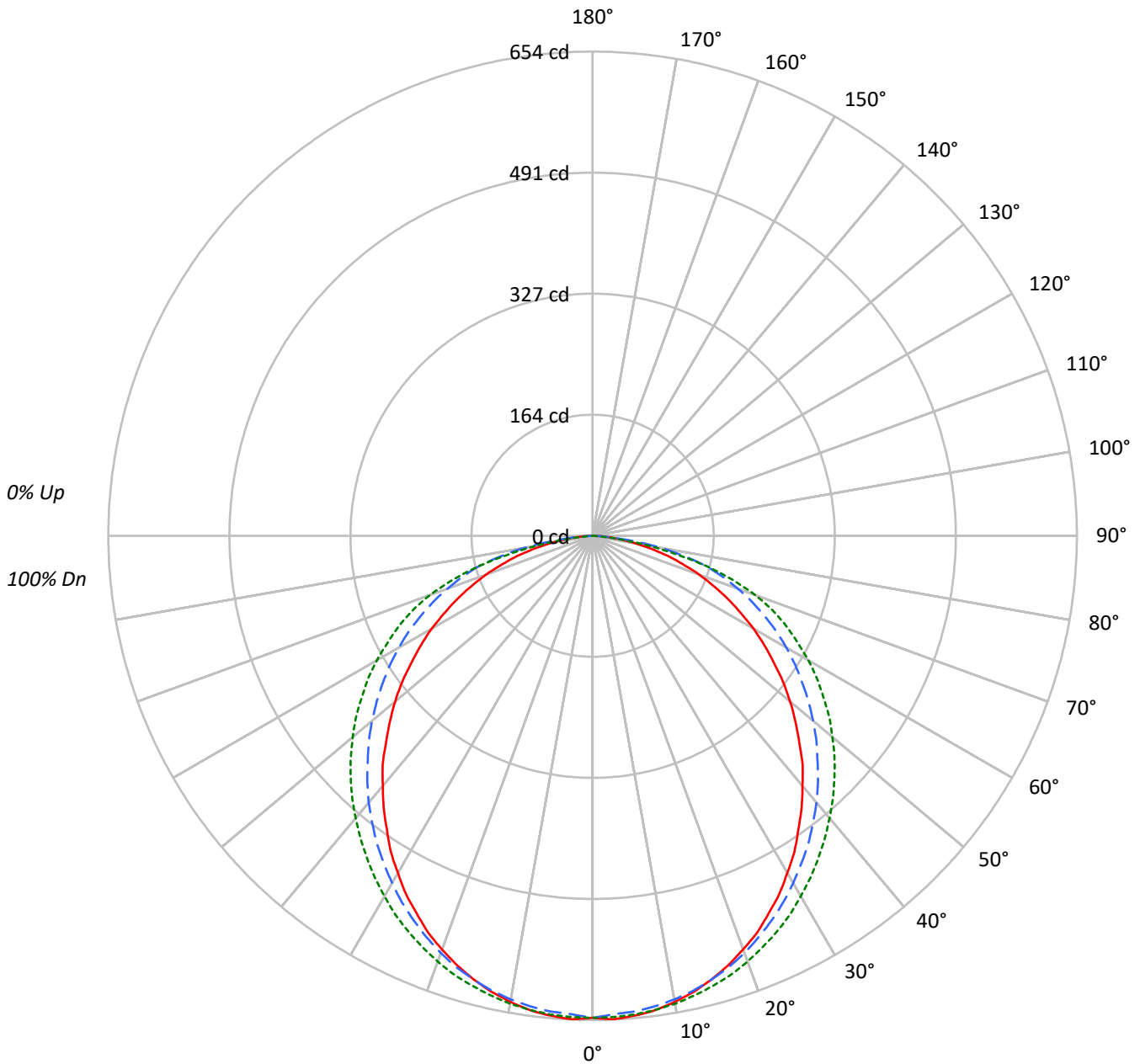
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1890.0 lumens
Efficiency: N/A
Efficacy: 118.1 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): 16
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: P842813
CATALOG NUMBER: 14CZ2-20-UNV-B40

Luminous Intensity Polar Plot





TEST NUMBER: P842813

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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	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°	1838	1838	1838
5°	1844	1828	1839
10°	1832	1823	1840
15°	1813	1814	1839
20°	1786	1801	1838
25°	1752	1784	1836
30°	1714	1765	1832
35°	1669	1750	1831
40°	1624	1733	1834
45°	1575	1714	1844
50°	1529	1706	1856
55°	1470	1701	1873
60°	1418	1704	1899
65°	1345	1708	1928
70°	1263	1722	1926
75°	1144	1737	1743
80°	940	1499	1239
85°	696	709	285



TEST NUMBER: P842813

CATALOG NUMBER: 14CZ2-20-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	3.3
10°-20°	176.0	9.3
20°-30°	265.1	14.0
30°-40°	318.2	16.8
40°-50°	331.6	17.5
50°-60°	307.0	16.2
60°-70°	248.0	13.1
70°-80°	151.2	8.0
80°-90°	31.2	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°	502.8	26.6
0°-40°	820.9	43.4
0°-60°	1459.5	77.2
0°-90°	1890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	651	649	645	650	649	62
15°	620	621	621	629	629	175
25°	563	566	573	587	590	259
35°	484	492	508	526	531	303
45°	394	406	429	453	462	305
55°	299	314	346	372	381	268
65°	201	221	256	282	289	199
75°	105	128	159	162	160	110
85°	22	32	22	12	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	651.1	651.1	651.1	651.1	651.1
2.5°	653.7	651.6	646.9	651.6	650.7
5°	650.7	649.0	645.2	649.8	649.0
7.5°	646.5	644.7	641.4	646.9	646.0
10°	639.3	638.5	635.9	642.3	641.8
12.5°	630.9	630.5	629.2	636.4	635.9
15°	620.4	620.7	620.7	629.2	629.2
17.5°	608.5	609.4	611.1	620.4	621.7
20°	594.6	596.4	599.7	610.3	611.9
22.5°	580.3	581.6	586.6	599.3	601.0
25°	562.6	566.0	572.7	587.1	589.6
27.5°	545.8	548.7	558.0	572.7	577.0
30°	525.9	530.6	541.6	557.6	562.2
32.5°	507.0	512.0	524.7	543.2	547.4
35°	484.3	491.8	507.8	526.4	531.4
37.5°	463.6	470.7	488.9	509.1	515.0
40°	440.8	449.7	470.4	491.8	497.7
42.5°	419.8	428.1	450.5	472.4	480.5
45°	394.5	406.3	429.4	453.4	461.9
47.5°	371.3	383.1	409.7	435.3	443.0
50°	348.1	360.7	388.6	415.1	422.7
52.5°	324.1	337.6	367.4	394.0	402.9
55°	298.8	314.4	345.6	372.5	380.6
57.5°	274.7	290.8	324.1	351.4	359.4
60°	251.2	267.7	301.8	327.9	336.4
62.5°	225.1	244.5	279.8	305.5	311.9
65°	201.4	221.3	255.8	281.5	288.7
67.5°	176.6	198.1	232.6	256.2	263.0
70°	153.0	175.3	208.6	230.5	233.4
72.5°	127.7	150.5	184.1	198.1	198.1
75°	104.9	128.1	159.3	161.9	159.8
77.5°	80.1	105.8	126.0	120.9	115.9
80°	57.8	83.1	92.2	83.1	76.2
82.5°	38.8	60.2	55.6	44.2	39.2
85°	21.5	32.0	21.9	12.2	8.8
87.5°	8.0	7.2	2.1	2.1	2.1
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)