

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: P842801

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-HRP-UNV-B40
Description: 1X4 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

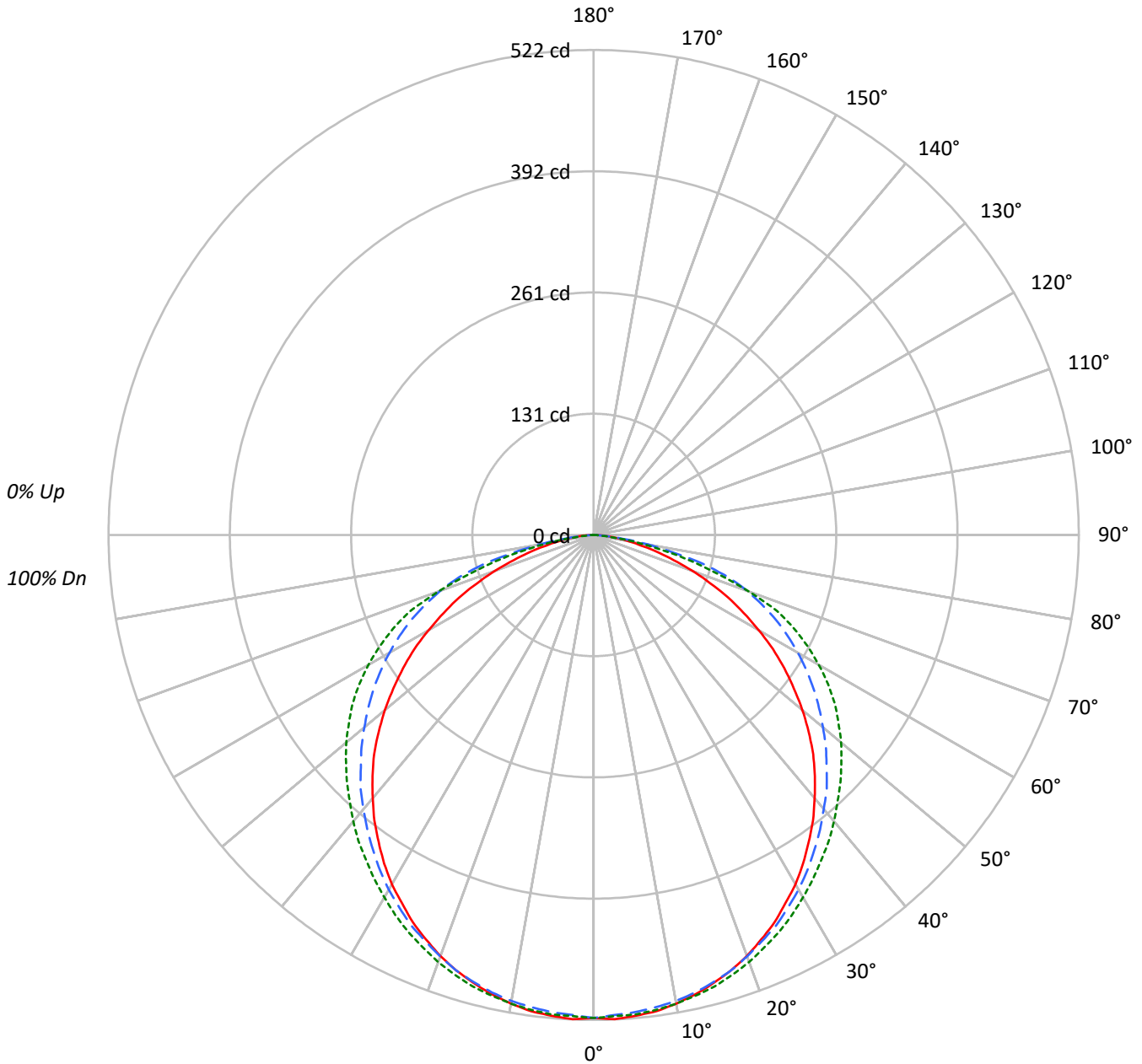
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1531.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
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

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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1468	1468	1468
5°	1472	1461	1468
10°	1468	1460	1468
15°	1459	1456	1470
20°	1449	1450	1469
25°	1434	1445	1469
30°	1415	1437	1468
35°	1390	1427	1471
40°	1363	1419	1483
45°	1334	1414	1499
50°	1287	1414	1526
55°	1232	1422	1559
60°	1157	1432	1579
65°	1067	1447	1588
70°	930	1450	1462
75°	767	1350	1181
80°	601	970	790
85°	470	376	185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	3.2
10°-20°	141.2	9.2
20°-30°	214.5	14.0
30°-40°	259.9	17.0
40°-50°	273.9	17.9
50°-60°	255.7	16.7
60°-70°	204.3	13.3
70°-80°	112.4	7.3
80°-90°	19.9	1.3
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°	404.9	26.5
0°-40°	664.8	43.4
0°-60°	1194.4	78.0
0°-90°	1531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	520	518	516	519	518	49
15°	499	499	498	503	503	141
25°	460	461	464	471	472	212
35°	403	407	414	425	427	252
45°	334	340	354	370	376	257
55°	250	263	289	309	317	223
65°	160	180	217	234	238	157
75°	70	101	124	111	108	76
85°	14	18	12	7	6	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	519.9	519.9	519.9	519.9	519.9
2.5°	521.8	520.4	517.1	519.9	518.5
5°	519.5	518.0	515.6	519.0	518.0
7.5°	517.1	515.1	512.7	516.6	515.6
10°	512.2	510.7	509.4	512.7	512.2
12.5°	506.5	506.0	504.5	508.4	507.9
15°	499.3	499.3	498.3	503.1	503.1
17.5°	491.5	491.0	491.5	496.8	496.4
20°	482.3	482.3	482.8	489.2	489.2
22.5°	471.3	471.7	473.2	480.9	480.4
25°	460.3	461.1	464.1	470.8	471.7
27.5°	446.8	449.2	452.5	460.7	461.6
30°	434.2	435.7	440.9	448.7	450.5
32.5°	419.4	422.2	428.0	436.7	439.1
35°	403.4	407.3	414.0	424.6	427.0
37.5°	387.6	391.0	400.1	411.1	415.5
40°	369.8	375.5	385.1	397.7	402.4
42.5°	352.3	358.2	371.2	384.1	388.5
45°	334.1	340.4	354.3	370.3	375.5
47.5°	313.8	321.2	338.9	355.8	361.5
50°	293.1	302.3	322.0	340.9	347.6
52.5°	271.6	283.0	305.7	325.4	331.8
55°	250.4	262.8	288.9	309.1	316.8
57.5°	228.7	242.2	271.6	294.6	299.0
60°	205.0	221.5	253.7	273.9	279.7
62.5°	182.0	200.8	235.4	254.6	259.5
65°	159.8	180.1	216.6	234.4	237.8
67.5°	135.7	159.8	195.9	212.4	213.2
70°	112.7	140.6	175.7	183.4	177.1
72.5°	90.0	119.9	152.2	145.8	140.6
75°	70.3	100.6	123.8	111.2	108.3
77.5°	52.0	82.4	88.6	81.9	76.5
80°	37.0	64.9	59.7	51.0	48.6
82.5°	25.5	40.9	32.8	25.5	22.2
85°	14.5	18.3	11.6	7.2	5.7
87.5°	6.2	4.4	2.4	1.9	1.9
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)