

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: P842891

Luminaire Tested: **22CZ2-20HE-HRP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294823)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20HE-HRP-UNV-B40
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

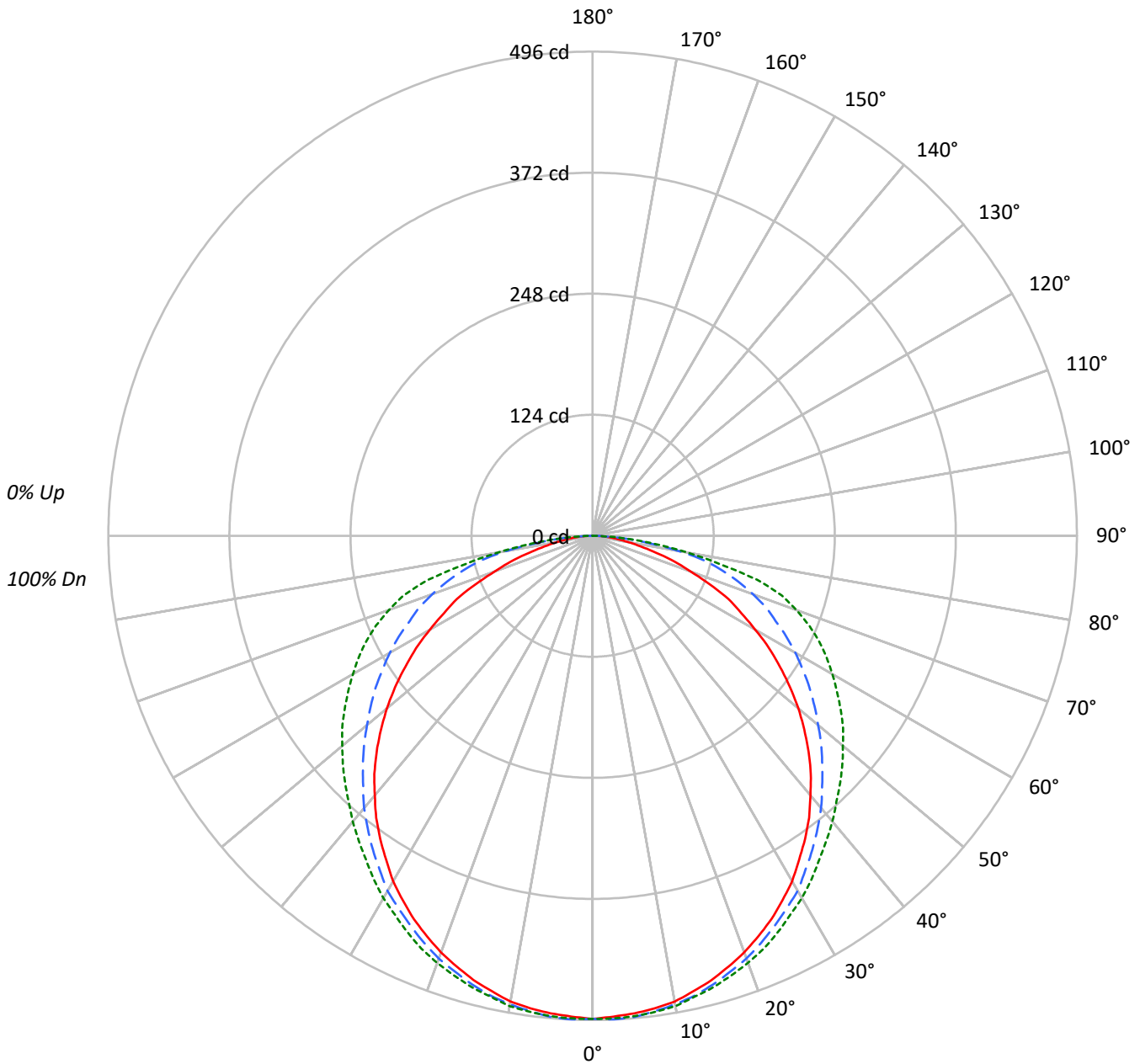
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1503.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' 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: P842891
CATALOG NUMBER: 22CZ2-20HE-HRP-UNV-B40

Luminous Intensity Polar Plot





TEST NUMBER: P842891

CATALOG NUMBER: 22CZ2-20HE-HRP-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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1404	1404	1404
5°	1399	1410	1407
10°	1396	1404	1410
15°	1384	1398	1406
20°	1372	1391	1406
25°	1357	1380	1404
30°	1339	1376	1404
35°	1314	1360	1402
40°	1285	1349	1415
45°	1256	1335	1438
50°	1214	1331	1478
55°	1159	1342	1534
60°	1092	1361	1609
65°	1031	1388	1719
70°	881	1448	1840
75°	738	1507	1913
80°	605	1456	1595
85°	527	1081	1172



TEST NUMBER: P842891

CATALOG NUMBER: 22CZ2-20HE-HRP-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	3.1
10°-20°	134.2	8.9
20°-30°	203.3	13.5
30°-40°	245.5	16.3
40°-50°	258.0	17.2
50°-60°	242.8	16.2
60°-70°	202.4	13.5
70°-80°	134.1	8.9
80°-90°	35.7	2.4
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°	384.4	25.6
0°-40°	630.0	41.9
0°-60°	1130.7	75.2
0°-90°	1503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	491	492	495	495	494	47
15°	471	473	476	478	479	133
25°	433	436	441	446	448	200
35°	379	383	392	401	405	237
45°	313	318	333	350	358	241
55°	234	245	271	299	310	210
65°	154	167	207	241	256	149
75°	67	94	138	166	174	73
85°	16	25	33	36	36	19
90°	0	0	0	0	0	



TEST NUMBER: P842891

CATALOG NUMBER: 22CZ2-20HE-HRP-UNV-B40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	494.9	494.9	494.9	494.9	494.9
2.5°	493.0	494.0	495.9	495.9	494.9
5°	491.1	492.0	494.9	494.9	494.0
7.5°	488.3	489.3	491.1	493.0	492.0
10°	484.5	485.4	487.4	489.3	489.3
12.5°	477.9	478.7	482.6	483.5	483.5
15°	471.2	473.1	476.0	477.9	478.7
17.5°	462.7	464.6	468.3	472.2	472.2
20°	454.2	456.1	460.8	464.6	465.6
22.5°	443.8	446.5	451.3	456.1	457.9
25°	433.3	436.1	440.9	446.5	448.4
27.5°	421.0	423.8	430.5	437.1	438.0
30°	408.7	411.4	420.0	425.7	428.6
32.5°	393.5	397.3	405.8	414.3	417.2
35°	379.2	383.0	392.5	401.0	404.8
37.5°	364.1	367.8	378.3	388.8	393.5
40°	347.0	351.8	364.1	375.5	382.1
42.5°	330.9	335.6	347.9	363.2	369.7
45°	312.9	317.6	332.7	349.9	358.4
47.5°	293.9	299.6	317.6	338.5	347.0
50°	275.0	281.6	301.5	325.2	334.7
52.5°	255.0	263.6	286.4	311.9	323.3
55°	234.2	244.6	271.2	298.6	310.0
57.5°	214.3	223.7	255.0	284.5	296.8
60°	192.5	204.8	239.9	270.2	283.5
62.5°	171.6	184.9	223.7	256.0	270.2
65°	153.6	166.8	206.7	240.9	256.0
67.5°	129.8	147.9	192.5	224.7	239.9
70°	106.2	130.8	174.5	207.7	221.8
72.5°	88.2	111.9	156.4	189.6	202.9
75°	67.3	93.9	137.5	165.9	174.5
77.5°	50.3	77.7	117.6	131.8	132.7
80°	37.0	59.8	89.1	93.9	97.6
82.5°	25.6	41.7	57.8	63.5	65.4
85°	16.2	24.7	33.2	36.0	36.0
87.5°	8.5	9.5	11.4	11.4	11.4
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)