

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: P842904

Luminaire Tested: **22CZ2-20HE-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20HE-UNV-B50
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

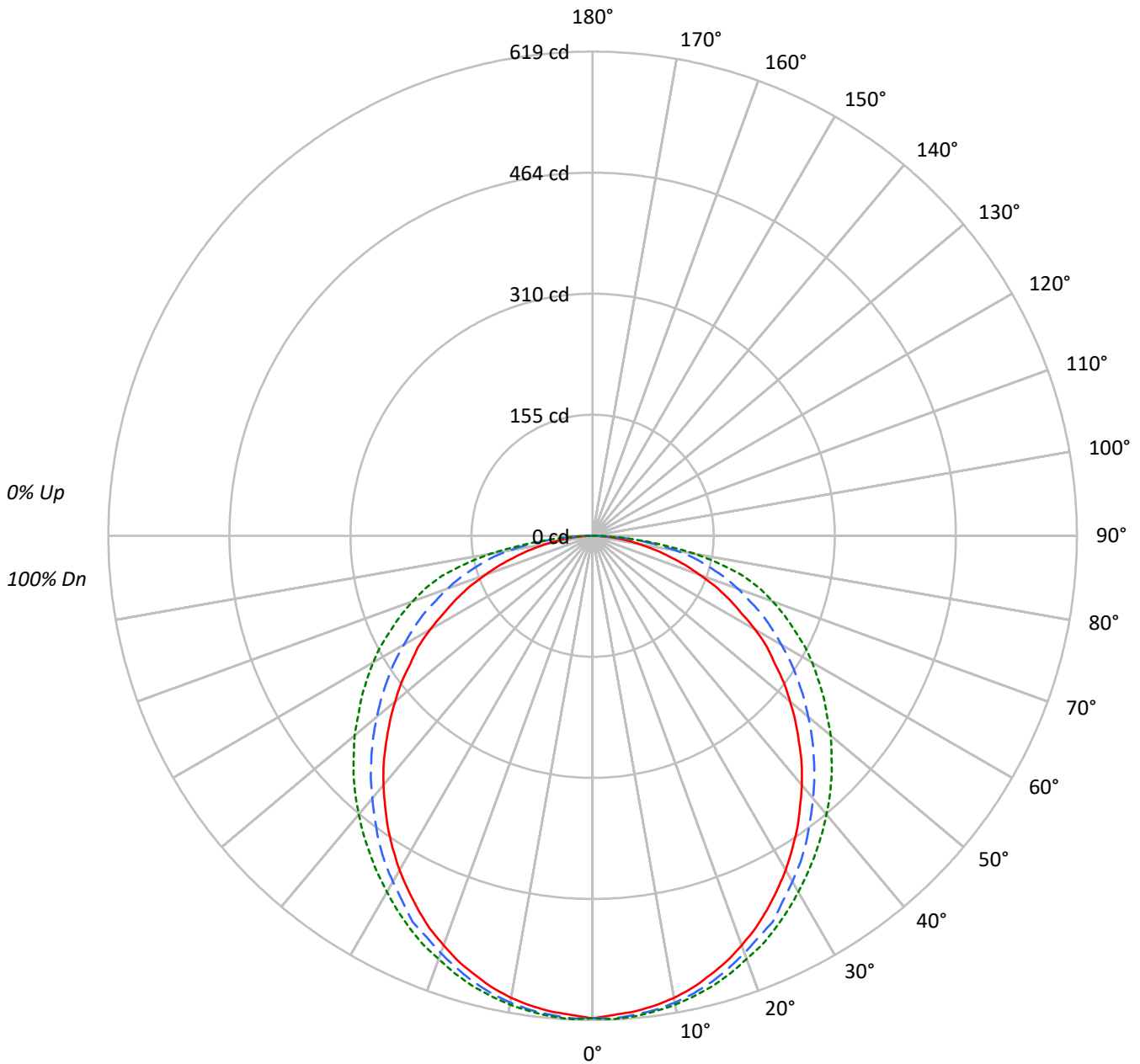
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1814.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
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

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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	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56																			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48																			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36																			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32																			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28																			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25																			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1750	1750	1750
5°	1739	1751	1757
10°	1728	1746	1754
15°	1707	1733	1749
20°	1682	1714	1738
25°	1652	1705	1733
30°	1617	1673	1723
35°	1580	1651	1719
40°	1541	1623	1722
45°	1497	1605	1734
50°	1454	1588	1753
55°	1404	1581	1784
60°	1363	1581	1839
65°	1294	1606	1906
70°	1207	1637	2029
75°	1106	1694	2193
80°	962	1765	2159
85°	843	1569	1716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	3.2
10°-20°	166.1	9.2
20°-30°	249.4	13.7
30°-40°	298.0	16.4
40°-50°	309.9	17.1
50°-60°	287.2	15.8
60°-70°	235.6	13.0
70°-80°	159.3	8.8
80°-90°	50.1	2.8
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°	473.9	26.1
0°-40°	771.9	42.6
0°-60°	1369.0	75.5
0°-90°	1814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	610	611	615	616	617	58
15°	581	584	590	594	595	164
25°	528	532	544	551	553	243
35°	456	462	477	491	496	285
45°	373	380	400	423	432	288
55°	284	293	320	348	361	255
65°	193	204	239	270	284	191
75°	101	118	154	186	200	107
85°	26	36	48	54	53	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	616.8	616.8	616.8	616.8	616.8
2.5°	613.2	614.9	617.6	618.6	618.6
5°	610.5	611.4	614.9	615.9	616.8
7.5°	606.0	607.9	611.4	612.4	613.2
10°	599.8	601.6	606.0	607.9	608.7
12.5°	591.8	593.5	598.9	601.6	602.5
15°	581.1	583.8	590.0	593.5	595.4
17.5°	570.4	573.0	579.3	584.6	586.4
20°	557.0	563.2	567.7	574.8	575.7
22.5°	543.6	547.2	555.1	562.4	565.9
25°	527.5	532.0	544.5	550.7	553.4
27.5°	510.6	516.9	526.6	536.4	540.0
30°	493.6	498.0	510.6	522.1	525.8
32.5°	474.9	481.1	494.5	506.1	511.5
35°	456.1	462.3	476.6	490.9	496.3
37.5°	435.6	442.7	457.0	473.9	481.1
40°	416.0	421.3	438.2	458.8	465.0
42.5°	395.4	401.6	419.5	441.9	449.0
45°	373.1	380.2	399.9	423.1	432.0
47.5°	351.6	358.8	380.2	403.5	414.1
50°	329.4	338.3	359.7	386.5	397.2
52.5°	308.0	316.0	340.1	367.8	377.6
55°	283.9	292.8	319.6	348.1	360.6
57.5°	264.2	270.4	299.9	329.4	341.8
60°	240.1	248.2	278.5	309.7	324.0
62.5°	214.3	227.6	258.8	291.0	305.3
65°	192.8	203.5	239.2	270.4	283.9
67.5°	170.5	182.1	216.9	250.0	265.1
70°	145.5	160.7	197.3	230.3	244.6
72.5°	123.2	139.3	176.7	208.9	224.1
75°	100.9	117.8	154.5	185.7	200.0
77.5°	79.5	98.2	133.9	158.0	166.9
80°	58.9	76.8	108.0	125.0	132.1
82.5°	41.1	56.3	79.5	88.4	90.1
85°	25.9	35.7	48.2	53.6	52.7
87.5°	11.6	14.3	17.9	19.7	18.7
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)