

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: P881064

Luminaire Tested: **22CZ2-24VHE-HRP-UNV-B50**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P881064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475114)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24VHE-HRP-UNV-B50
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

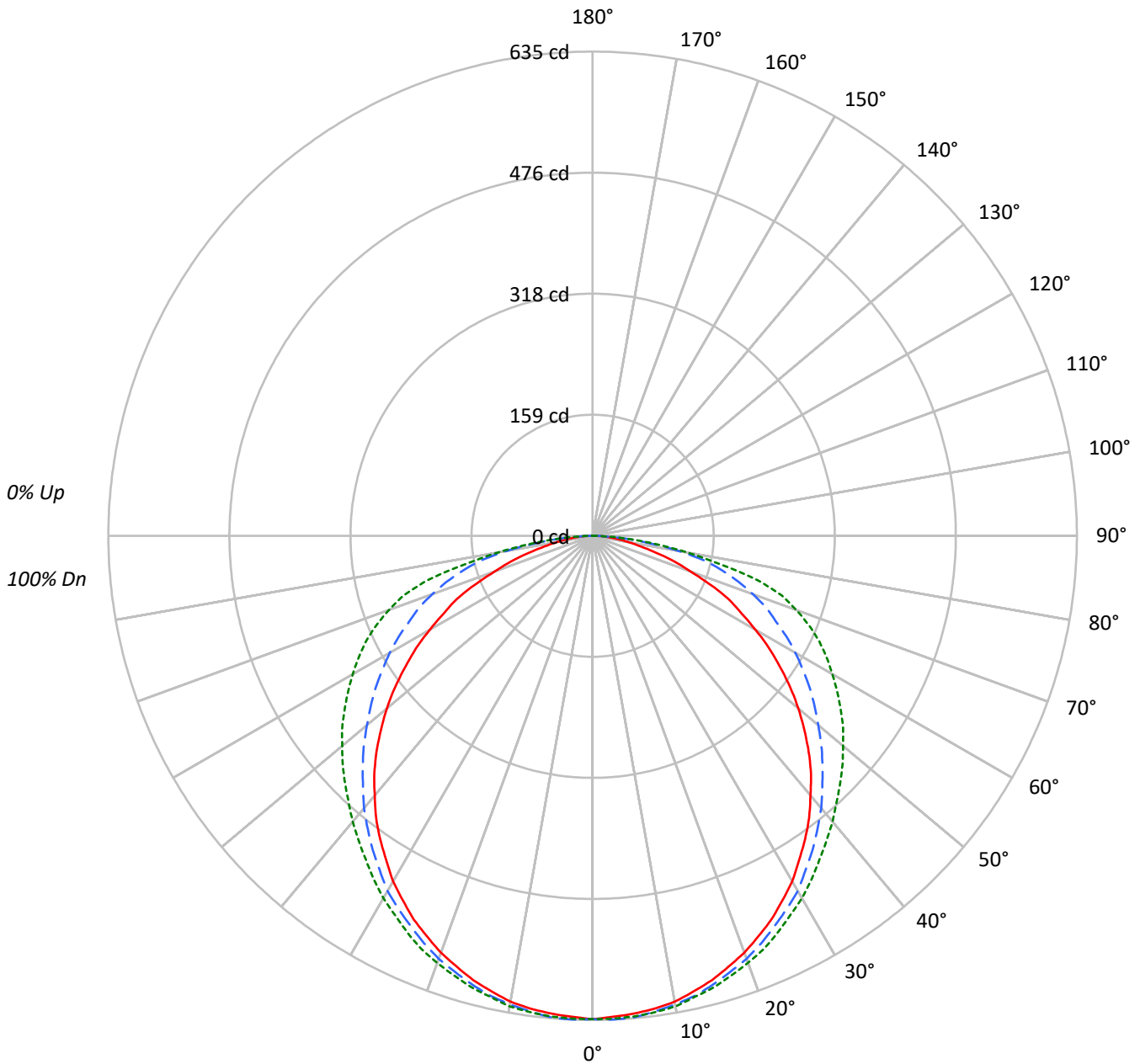
Lumens per Lamp: N/A
Luminaire Lumens: 1925.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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

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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	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°	1799	1799	1799
5°	1792	1806	1802
10°	1788	1799	1806
15°	1773	1791	1801
20°	1757	1782	1800
25°	1738	1768	1798
30°	1715	1762	1798
35°	1682	1741	1796
40°	1646	1727	1813
45°	1608	1711	1842
50°	1555	1704	1892
55°	1484	1718	1964
60°	1399	1743	2061
65°	1321	1777	2202
70°	1128	1854	2357
75°	946	1931	2450
80°	775	1866	2044
85°	671	1384	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	3.1
10°-20°	171.8	8.9
20°-30°	260.5	13.5
30°-40°	314.5	16.3
40°-50°	330.5	17.2
50°-60°	310.9	16.2
60°-70°	259.2	13.5
70°-80°	171.8	8.9
80°-90°	45.8	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°	492.4	25.6
0°-40°	806.9	41.9
0°-60°	1448.2	75.2
0°-90°	1925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	629	630	634	634	633	60
15°	604	606	610	612	613	170
25°	555	559	565	572	574	256
35°	486	491	503	514	518	304
45°	401	407	426	448	459	309
55°	300	313	347	382	397	268
65°	197	214	265	308	328	191
75°	86	120	176	212	224	94
85°	21	32	42	46	46	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	633.9	633.9	633.9	633.9	633.9
2.5°	631.4	632.6	635.1	635.1	633.9
5°	629.0	630.2	633.9	633.9	632.6
7.5°	625.4	626.7	629.0	631.4	630.2
10°	620.5	621.7	624.2	626.7	626.7
12.5°	612.0	613.2	618.1	619.4	619.4
15°	603.5	606.0	609.6	612.0	613.2
17.5°	592.6	595.0	599.9	604.7	604.7
20°	581.7	584.1	590.2	595.0	596.1
22.5°	568.4	572.0	578.1	584.1	586.6
25°	555.0	558.6	564.7	572.0	574.4
27.5°	539.1	542.8	551.4	559.9	561.0
30°	523.3	527.0	537.9	545.2	548.9
32.5°	503.9	508.8	519.7	530.6	534.3
35°	485.7	490.6	502.7	513.8	518.5
37.5°	466.3	471.1	484.5	498.0	503.9
40°	444.4	450.6	466.3	480.9	489.4
42.5°	423.9	429.9	445.7	465.1	473.6
45°	400.7	406.8	426.3	448.0	459.1
47.5°	376.4	383.7	406.8	433.6	444.4
50°	352.2	360.7	386.1	416.5	428.6
52.5°	326.6	337.6	366.7	399.6	414.0
55°	299.9	313.4	347.3	382.5	397.1
57.5°	274.4	286.7	326.6	364.3	380.1
60°	246.5	262.3	307.2	346.0	363.1
62.5°	219.8	236.8	286.7	327.9	346.0
65°	196.8	213.6	264.7	308.4	327.9
67.5°	166.3	189.5	246.5	287.8	307.2
70°	136.0	167.5	223.5	265.9	284.1
72.5°	112.9	143.3	200.4	242.9	259.9
75°	86.3	120.2	176.1	212.5	223.5
77.5°	64.4	99.6	150.5	168.9	170.0
80°	47.4	76.4	114.2	120.2	125.1
82.5°	32.9	53.4	74.1	81.3	83.8
85°	20.6	31.5	42.5	46.1	46.1
87.5°	10.9	12.1	14.6	14.6	14.6
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)