

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: P881063

Luminaire Tested: **22CZ2-24VHE-HRP-UNV-B40**

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: P881063
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-B40
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

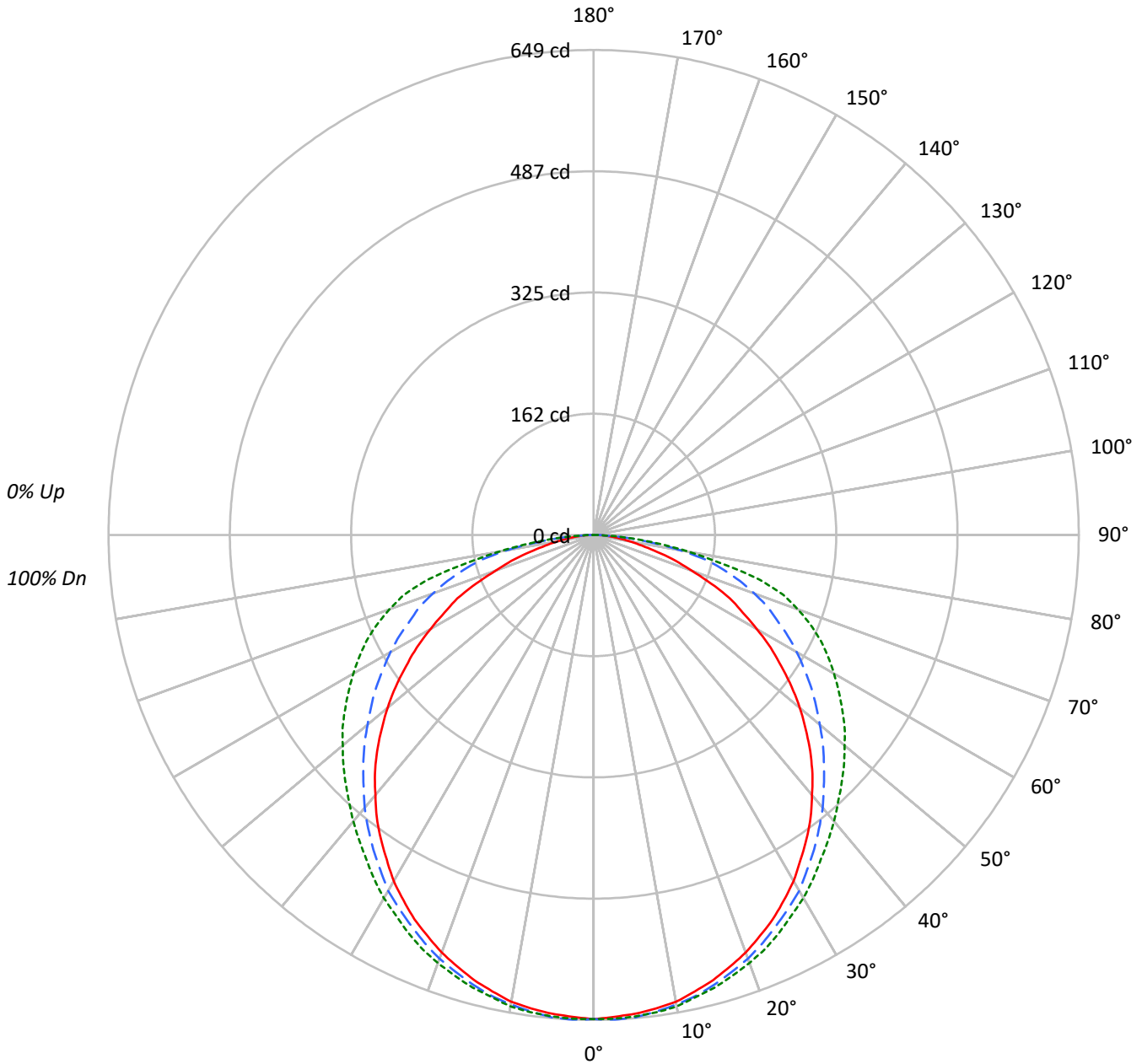
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1968.0 lumens
Efficiency: N/A
Efficacy: 98.4 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°	1839	1839	1839
5°	1832	1846	1842
10°	1828	1839	1846
15°	1813	1831	1842
20°	1796	1822	1840
25°	1776	1807	1839
30°	1753	1802	1839
35°	1720	1780	1836
40°	1683	1766	1853
45°	1644	1749	1883
50°	1589	1743	1934
55°	1517	1757	2008
60°	1430	1782	2107
65°	1351	1817	2251
70°	1153	1896	2410
75°	967	1975	2505
80°	793	1907	2090
85°	687	1413	1533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.1
10°-20°	175.7	8.9
20°-30°	266.3	13.5
30°-40°	321.5	16.3
40°-50°	337.8	17.2
50°-60°	317.9	16.2
60°-70°	265.0	13.5
70°-80°	175.6	8.9
80°-90°	46.8	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°	503.4	25.6
0°-40°	824.9	41.9
0°-60°	1480.6	75.2
0°-90°	1968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	643	644	648	648	647	61
15°	617	620	623	626	627	174
25°	567	571	577	585	587	261
35°	497	502	514	525	530	310
45°	410	416	436	458	469	316
55°	307	320	355	391	406	274
65°	201	218	271	315	335	196
75°	88	123	180	217	228	96
85°	21	32	43	47	47	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	648.0	648.0	648.0	648.0	648.0
2.5°	645.5	646.8	649.3	649.3	648.0
5°	643.1	644.3	648.0	648.0	646.8
7.5°	639.3	640.7	643.1	645.5	644.3
10°	634.4	635.6	638.1	640.7	640.7
12.5°	625.7	626.9	631.9	633.3	633.3
15°	617.0	619.5	623.2	625.7	626.9
17.5°	605.9	608.3	613.3	618.3	618.3
20°	594.7	597.2	603.4	608.3	609.5
22.5°	581.0	584.8	591.0	597.2	599.7
25°	567.4	571.1	577.3	584.8	587.3
27.5°	551.2	554.9	563.7	572.4	573.5
30°	535.0	538.8	549.9	557.4	561.2
32.5°	515.2	520.2	531.3	542.5	546.2
35°	496.6	501.6	514.0	525.2	530.1
37.5°	476.7	481.6	495.3	509.1	515.2
40°	454.3	460.6	476.7	491.6	500.3
42.5°	433.3	439.5	455.7	475.5	484.2
45°	409.6	415.9	435.8	458.0	469.3
47.5°	384.8	392.3	415.9	443.3	454.3
50°	360.0	368.7	394.8	425.8	438.2
52.5°	333.9	345.2	374.9	408.5	423.3
55°	306.6	320.4	355.1	391.0	405.9
57.5°	280.5	293.1	333.9	372.4	388.6
60°	252.0	268.1	314.0	353.7	371.2
62.5°	224.7	242.1	293.1	335.2	353.7
65°	201.2	218.4	270.6	315.3	335.2
67.5°	170.0	193.7	252.0	294.2	314.0
70°	139.0	171.3	228.5	271.9	290.5
72.5°	115.5	146.5	204.9	248.3	265.7
75°	88.2	122.9	180.1	217.3	228.5
77.5°	65.9	101.8	153.9	172.6	173.8
80°	48.5	78.1	116.7	122.9	127.9
82.5°	33.6	54.6	75.8	83.1	85.7
85°	21.1	32.2	43.4	47.1	47.1
87.5°	11.2	12.4	14.9	14.9	14.9
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)