

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: P842906

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842906
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: 22CZ2-24HE-HRP-UNV-B40
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

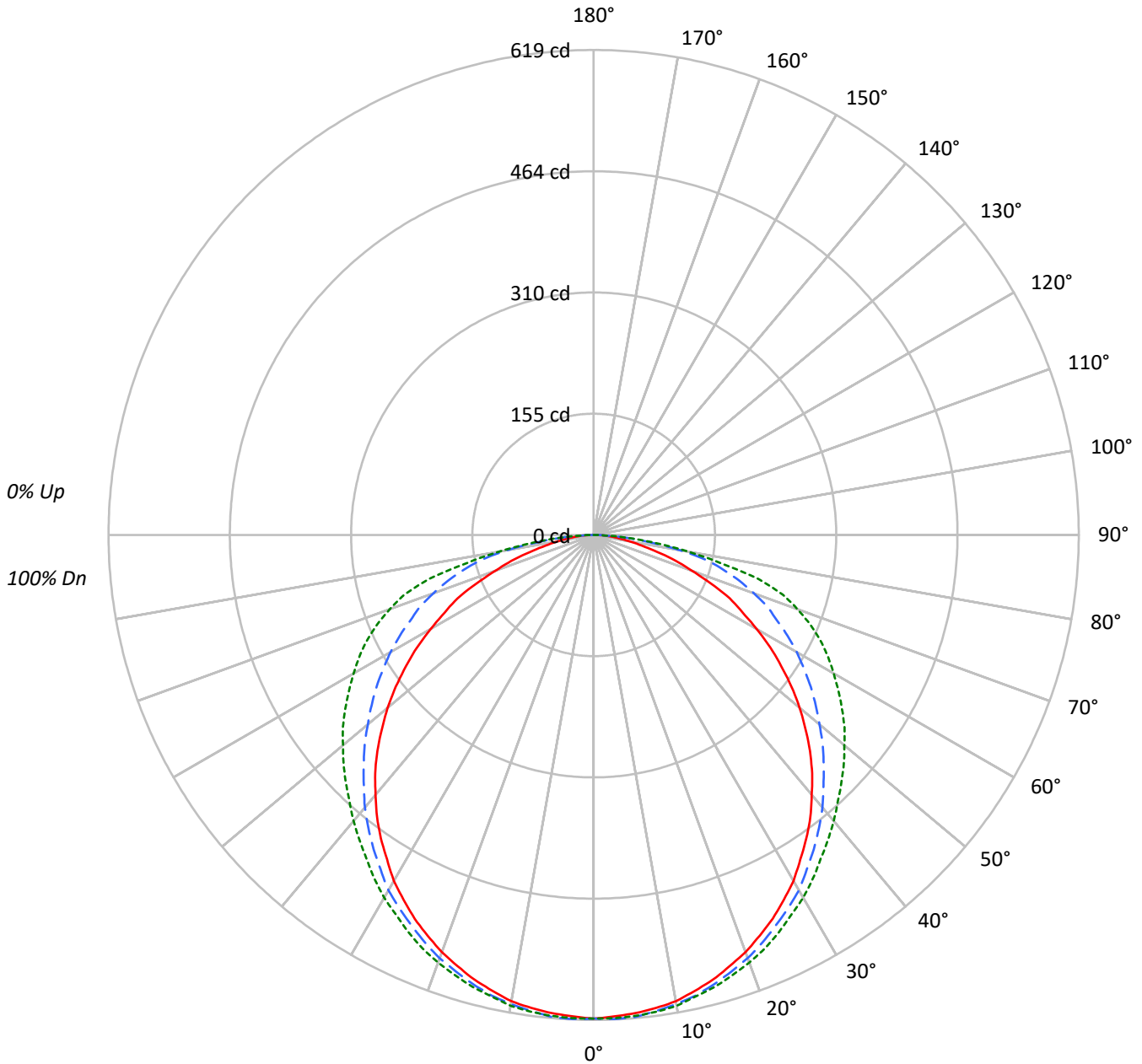
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1875.0 lumens
Efficiency: N/A
Efficacy: 93.8 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 (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	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°	1752	1752	1752
5°	1745	1759	1755
10°	1741	1752	1759
15°	1727	1744	1754
20°	1711	1736	1754
25°	1692	1722	1751
30°	1670	1717	1752
35°	1639	1696	1749
40°	1604	1682	1766
45°	1567	1666	1794
50°	1514	1661	1843
55°	1446	1674	1914
60°	1363	1698	2007
65°	1287	1731	2145
70°	1098	1805	2296
75°	921	1880	2386
80°	753	1817	1990
85°	658	1348	1462



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	3.1
10°-20°	167.4	8.9
20°-30°	253.7	13.5
30°-40°	306.3	16.3
40°-50°	321.9	17.2
50°-60°	302.9	16.2
60°-70°	252.5	13.5
70°-80°	167.3	8.9
80°-90°	44.6	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°	479.6	25.6
0°-40°	785.9	41.9
0°-60°	1410.6	75.2
0°-90°	1875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	613	614	617	617	616	58
15°	588	590	594	596	597	166
25°	540	544	550	557	559	249
35°	473	478	490	500	505	296
45°	390	396	415	436	447	301
55°	292	305	338	373	387	261
65°	192	208	258	300	319	186
75°	84	117	172	207	218	91
85°	20	31	41	45	45	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	617.4	617.4	617.4	617.4	617.4
2.5°	615.1	616.3	618.6	618.6	617.4
5°	612.7	613.8	617.4	617.4	616.3
7.5°	609.1	610.4	612.7	615.1	613.8
10°	604.4	605.5	608.0	610.4	610.4
12.5°	596.1	597.2	602.1	603.2	603.2
15°	587.8	590.2	593.8	596.1	597.2
17.5°	577.2	579.6	584.3	589.1	589.1
20°	566.6	568.9	574.9	579.6	580.8
22.5°	553.6	557.1	563.0	568.9	571.3
25°	540.5	544.1	550.0	557.1	559.4
27.5°	525.2	528.7	537.0	545.3	546.4
30°	509.8	513.3	523.9	531.1	534.7
32.5°	490.9	495.6	506.2	516.9	520.5
35°	473.1	477.8	489.7	500.3	505.0
37.5°	454.2	458.9	472.0	485.0	490.9
40°	432.9	438.8	454.2	468.4	476.7
42.5°	412.7	418.7	434.0	453.1	461.2
45°	390.4	396.2	415.1	436.5	447.1
47.5°	366.6	373.8	396.2	422.3	432.9
50°	343.0	351.3	376.2	405.7	417.6
52.5°	318.2	328.8	357.2	389.1	403.4
55°	292.2	305.2	338.3	372.6	386.8
57.5°	267.3	279.1	318.2	354.9	370.2
60°	240.1	255.5	299.2	337.1	353.6
62.5°	214.0	230.6	279.1	319.4	337.1
65°	191.7	208.1	257.8	300.5	319.4
67.5°	162.0	184.5	240.1	280.3	299.2
70°	132.4	163.2	217.6	259.1	276.7
72.5°	110.1	139.6	195.1	236.5	253.1
75°	84.0	117.1	171.5	207.0	217.6
77.5°	62.7	96.9	146.7	164.5	165.6
80°	46.1	74.6	111.2	117.1	121.8
82.5°	31.9	52.1	72.1	79.3	81.6
85°	20.2	30.8	41.4	44.9	44.9
87.5°	10.6	11.9	14.2	14.2	14.2
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)