

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: P842907

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842907
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-B50
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

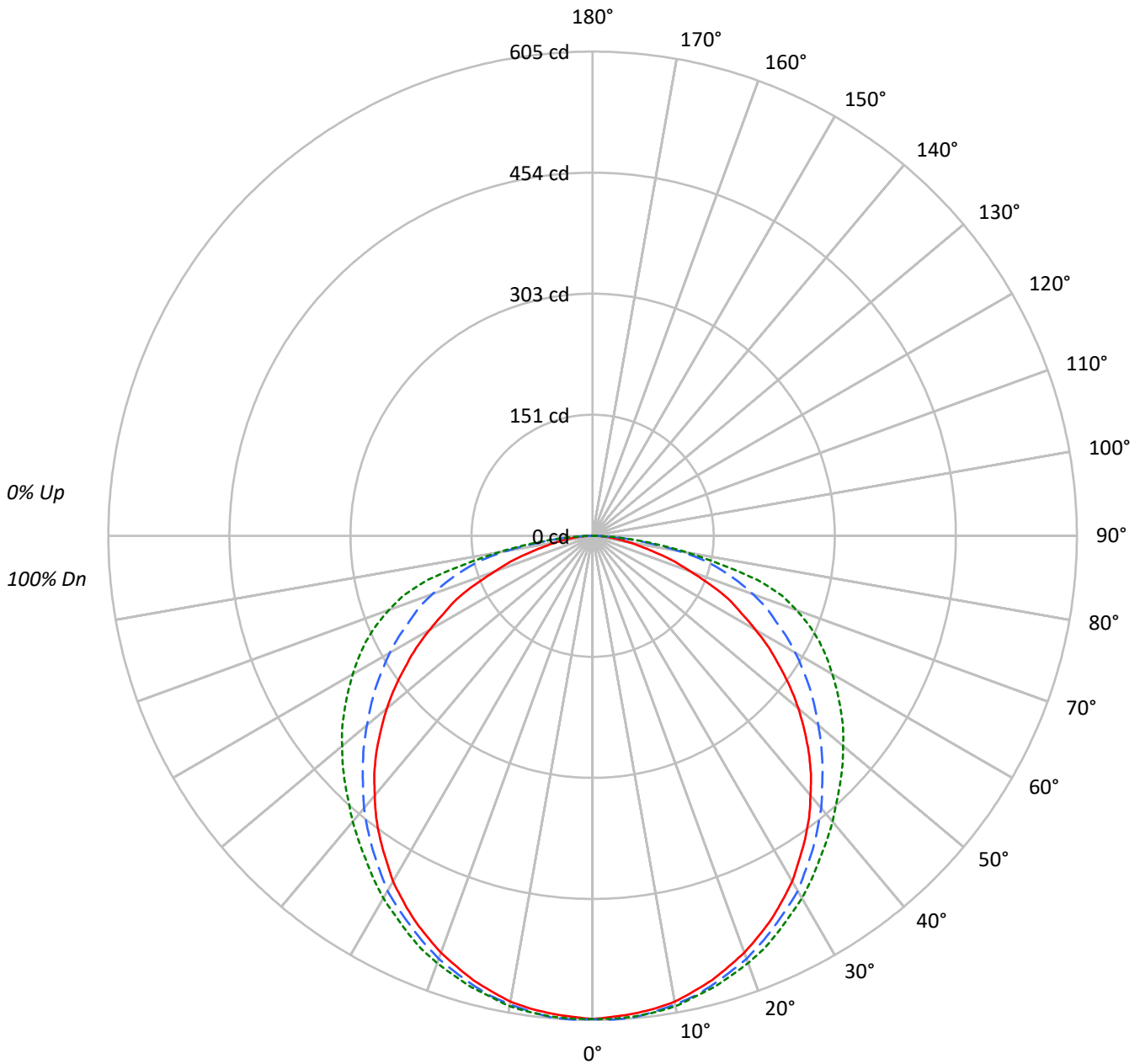
Lumens per Lamp: N/A
Luminaire Lumens: 1834.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	1714	1714	1714
5°	1707	1720	1717
10°	1703	1714	1720
15°	1689	1706	1716
20°	1673	1698	1715
25°	1655	1684	1713
30°	1634	1679	1714
35°	1603	1659	1711
40°	1568	1645	1727
45°	1532	1629	1755
50°	1481	1624	1803
55°	1414	1637	1871
60°	1333	1661	1963
65°	1259	1693	2098
70°	1074	1766	2246
75°	900	1840	2334
80°	737	1776	1946
85°	641	1319	1429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	3.1
10°-20°	163.7	8.9
20°-30°	248.1	13.5
30°-40°	299.6	16.3
40°-50°	314.8	17.2
50°-60°	296.2	16.2
60°-70°	247.0	13.5
70°-80°	163.7	8.9
80°-90°	43.6	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°	469.1	25.6
0°-40°	768.7	41.9
0°-60°	1379.8	75.2
0°-90°	1834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1834.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	599	600	604	604	603	57
15°	575	577	581	583	584	162
25°	529	532	538	545	547	243
35°	463	467	479	489	494	289
45°	382	388	406	427	437	294
55°	286	298	331	364	378	256
65°	188	204	252	294	312	182
75°	82	114	168	202	213	89
85°	20	30	40	44	44	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.9	603.9	603.9	603.9	603.9
2.5°	601.6	602.8	605.1	605.1	603.9
5°	599.3	600.4	603.9	603.9	602.8
7.5°	595.8	597.0	599.3	601.6	600.4
10°	591.2	592.3	594.7	597.0	597.0
12.5°	583.1	584.2	588.9	590.0	590.0
15°	575.0	577.3	580.8	583.1	584.2
17.5°	564.6	566.9	571.5	576.2	576.2
20°	554.2	556.5	562.3	566.9	568.1
22.5°	541.5	544.9	550.7	556.5	558.8
25°	528.7	532.2	538.0	544.9	547.2
27.5°	513.7	517.2	525.3	533.4	534.5
30°	498.7	502.1	512.5	519.5	523.0
32.5°	480.2	484.8	495.2	505.6	509.1
35°	462.7	467.3	479.0	489.4	494.0
37.5°	444.2	448.8	461.7	474.4	480.2
40°	423.4	429.3	444.2	458.2	466.3
42.5°	403.7	409.5	424.5	443.2	451.1
45°	381.8	387.5	406.0	427.0	437.4
47.5°	358.6	365.6	387.5	413.0	423.4
50°	335.5	343.6	367.9	396.8	408.5
52.5°	311.2	321.6	349.4	380.6	394.5
55°	285.8	298.5	330.9	364.4	378.3
57.5°	261.5	273.0	311.2	347.1	362.1
60°	234.9	249.9	292.7	329.7	345.9
62.5°	209.4	225.6	273.0	312.4	329.7
65°	187.5	203.6	252.2	293.9	312.4
67.5°	158.4	180.5	234.9	274.2	292.7
70°	129.5	159.7	212.9	253.4	270.7
72.5°	107.7	136.6	190.9	231.4	247.6
75°	82.1	114.5	167.8	202.5	212.9
77.5°	61.3	94.8	143.4	160.9	161.9
80°	45.1	72.9	108.7	114.5	119.1
82.5°	31.2	50.9	70.5	77.5	79.8
85°	19.7	30.1	40.5	43.9	43.9
87.5°	10.4	11.6	13.9	13.9	13.9
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)