

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: P842905

Luminaire Tested: **22CZ2-24HE-HRP-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842905
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-B35
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

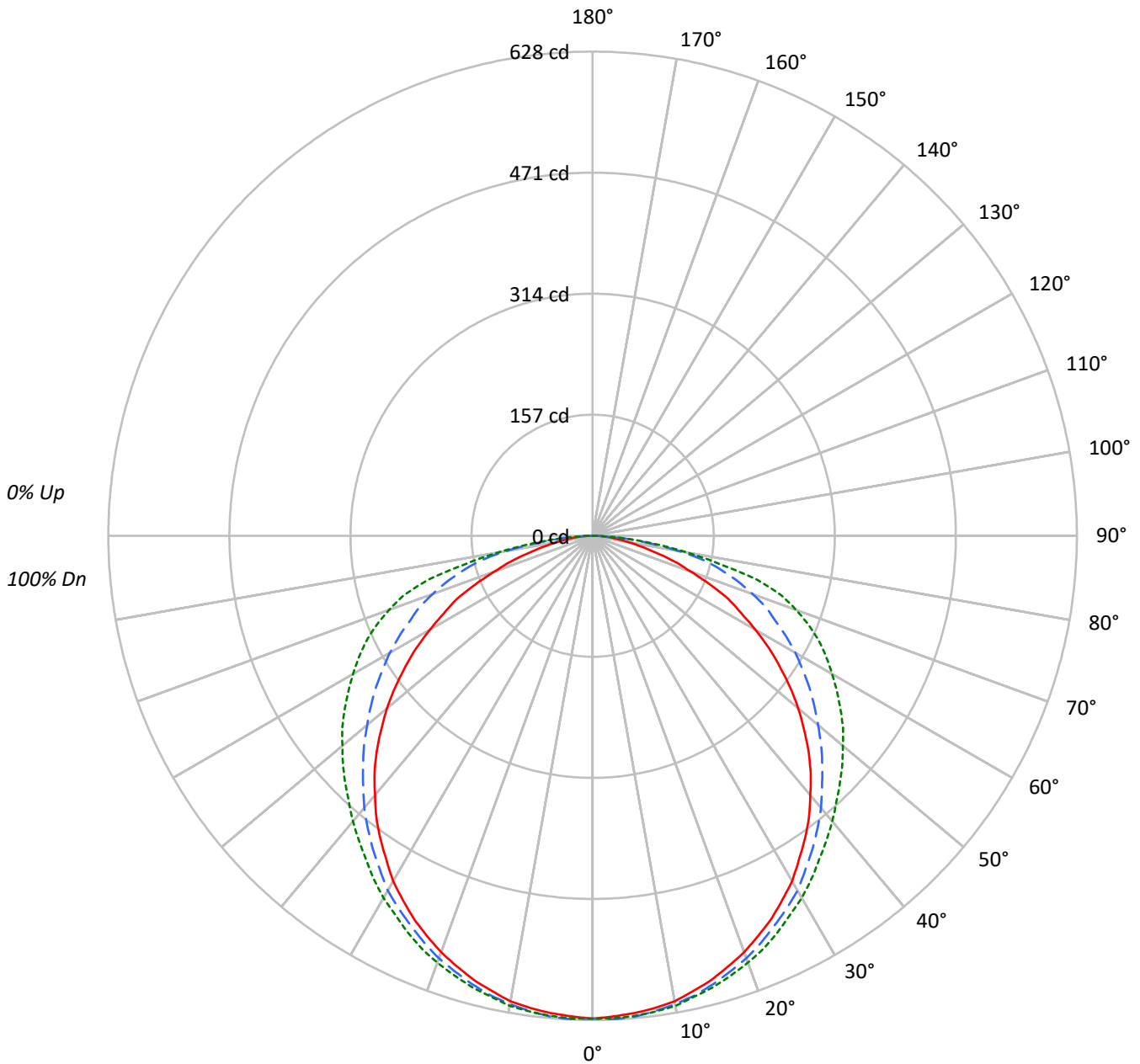
Lumens per Lamp: N/A
Luminaire Lumens: 1902.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P842905

CATALOG NUMBER: 22CZ2-24HE-HRP-UNV-B35

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°	1777	1777	1777
5°	1770	1784	1781
10°	1767	1777	1784
15°	1752	1769	1780
20°	1735	1761	1779
25°	1717	1747	1777
30°	1695	1741	1777
35°	1662	1721	1775
40°	1626	1706	1791
45°	1589	1690	1820
50°	1536	1685	1870
55°	1466	1698	1941
60°	1382	1722	2036
65°	1305	1756	2175
70°	1114	1832	2329
75°	934	1908	2421
80°	765	1843	2018
85°	667	1367	1481



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	3.1
10°-20°	169.8	8.9
20°-30°	257.3	13.5
30°-40°	310.7	16.3
40°-50°	326.5	17.2
50°-60°	307.2	16.2
60°-70°	256.1	13.5
70°-80°	169.7	8.9
80°-90°	45.2	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°	486.5	25.6
0°-40°	797.2	41.9
0°-60°	1430.9	75.2
0°-90°	1902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	622	623	626	626	625	59
15°	596	599	602	605	606	168
25°	548	552	558	565	568	252
35°	480	485	497	508	512	300
45°	396	402	421	443	454	305
55°	296	310	343	378	392	265
65°	194	211	262	305	324	189
75°	85	119	174	210	221	92
85°	20	31	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°	626.3	626.3	626.3	626.3	626.3
2.5°	623.9	625.2	627.5	627.5	626.3
5°	621.5	622.6	626.3	626.3	625.2
7.5°	617.9	619.1	621.5	623.9	622.6
10°	613.1	614.2	616.8	619.1	619.1
12.5°	604.7	605.8	610.7	611.9	611.9
15°	596.3	598.7	602.3	604.7	605.8
17.5°	585.5	587.9	592.7	597.6	597.6
20°	574.7	577.1	583.1	587.9	589.2
22.5°	561.6	565.1	571.1	577.1	579.5
25°	548.3	551.9	557.9	565.1	567.5
27.5°	532.7	536.4	544.8	553.2	554.3
30°	517.2	520.7	531.5	538.7	542.4
32.5°	498.0	502.7	513.5	524.3	528.0
35°	479.9	484.7	496.7	507.5	512.3
37.5°	460.7	465.5	478.8	492.0	498.0
40°	439.1	445.2	460.7	475.1	483.5
42.5°	418.7	424.7	440.3	459.6	467.9
45°	396.0	401.9	421.1	442.8	453.6
47.5°	371.9	379.2	401.9	428.4	439.1
50°	348.0	356.4	381.6	411.5	423.6
52.5°	322.7	333.5	362.4	394.7	409.2
55°	296.4	309.6	343.2	377.9	392.4
57.5°	271.2	283.1	322.7	360.0	375.5
60°	243.6	259.1	303.5	341.9	358.7
62.5°	217.1	233.9	283.1	324.0	341.9
65°	194.4	211.1	261.5	304.8	324.0
67.5°	164.3	187.1	243.6	284.4	303.5
70°	134.3	165.6	220.8	262.8	280.7
72.5°	111.6	141.6	197.9	240.0	256.8
75°	85.2	118.8	174.0	210.0	220.8
77.5°	63.6	98.3	148.8	166.8	168.0
80°	46.8	75.6	112.8	118.8	123.5
82.5°	32.4	52.8	73.1	80.4	82.8
85°	20.5	31.2	42.0	45.5	45.5
87.5°	10.8	12.0	14.4	14.4	14.4
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)