

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: P881062

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

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: P881062
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-B35
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

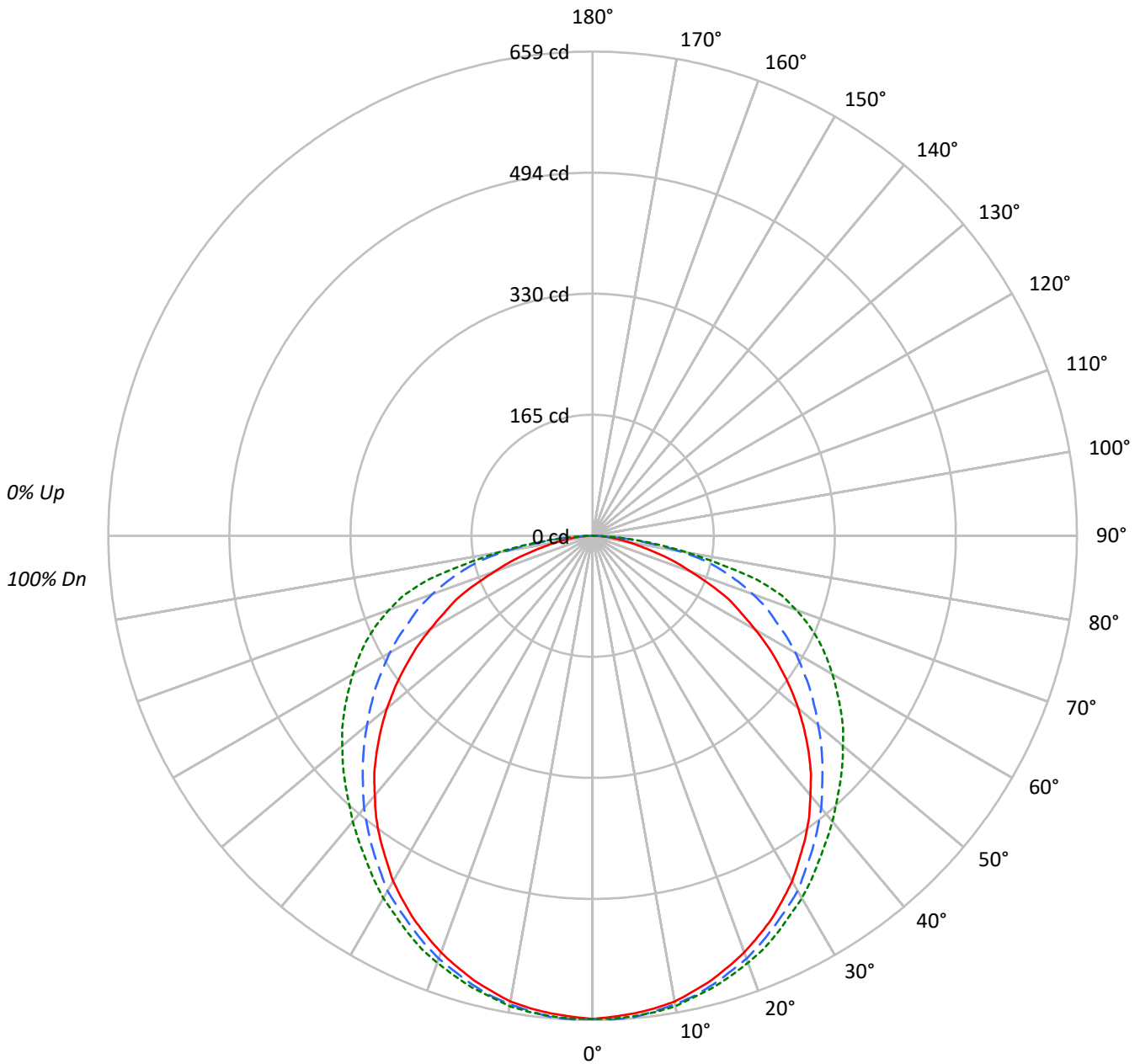
Lumens per Lamp: N/A
Luminaire Lumens: 1997.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 20
Input Voltage (V): NR
Input Current (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°	1866	1866	1866
5°	1859	1873	1869
10°	1855	1866	1873
15°	1839	1858	1869
20°	1822	1849	1867
25°	1803	1834	1866
30°	1779	1828	1866
35°	1746	1806	1863
40°	1708	1792	1881
45°	1668	1774	1911
50°	1613	1768	1963
55°	1539	1782	2038
60°	1451	1809	2138
65°	1370	1844	2284
70°	1171	1923	2445
75°	981	2003	2541
80°	804	1935	2121
85°	697	1433	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	3.1
10°-20°	178.3	8.9
20°-30°	270.2	13.5
30°-40°	326.2	16.3
40°-50°	342.8	17.2
50°-60°	322.5	16.2
60°-70°	268.9	13.5
70°-80°	178.2	8.9
80°-90°	47.5	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°	510.8	25.6
0°-40°	837.0	41.9
0°-60°	1502.4	75.2
0°-90°	1997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	652	654	658	658	656	62
15°	626	629	632	635	636	177
25°	576	580	586	593	596	265
35°	504	509	522	533	538	315
45°	416	422	442	465	476	320
55°	311	325	360	397	412	278
65°	204	222	275	320	340	199
75°	90	125	183	220	232	97
85°	21	33	44	48	48	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	657.6	657.6	657.6	657.6	657.6
2.5°	655.1	656.3	658.8	658.8	657.6
5°	652.5	653.8	657.6	657.6	656.3
7.5°	648.8	650.1	652.5	655.1	653.8
10°	643.7	645.0	647.5	650.1	650.1
12.5°	634.9	636.2	641.2	642.6	642.6
15°	626.1	628.6	632.4	634.9	636.2
17.5°	614.8	617.3	622.3	627.4	627.4
20°	603.5	606.0	612.3	617.3	618.4
22.5°	589.6	593.4	599.7	606.0	608.5
25°	575.8	579.5	585.8	593.4	595.9
27.5°	559.3	563.1	572.0	580.8	581.9
30°	542.9	546.7	558.0	565.6	569.5
32.5°	522.8	527.8	539.1	550.5	554.2
35°	503.9	508.9	521.5	533.0	537.9
37.5°	483.8	488.7	502.6	516.6	522.8
40°	461.0	467.4	483.8	498.9	507.7
42.5°	439.7	446.0	462.4	482.5	491.3
45°	415.7	422.0	442.2	464.8	476.2
47.5°	390.5	398.1	422.0	449.8	461.0
50°	365.3	374.2	400.6	432.0	444.6
52.5°	338.8	350.2	380.4	414.6	429.5
55°	311.1	325.1	360.3	396.8	411.9
57.5°	284.7	297.4	338.8	377.9	394.3
60°	255.7	272.1	318.7	358.9	376.7
62.5°	228.0	245.7	297.4	340.2	358.9
65°	204.1	221.6	274.6	319.9	340.2
67.5°	172.5	196.6	255.7	298.5	318.7
70°	141.1	173.8	231.8	275.9	294.7
72.5°	117.2	148.6	207.9	252.0	269.6
75°	89.5	124.7	182.7	220.5	231.8
77.5°	66.8	103.3	156.2	175.2	176.3
80°	49.2	79.3	118.4	124.7	129.8
82.5°	34.1	55.4	76.9	84.3	87.0
85°	21.4	32.7	44.0	47.8	47.8
87.5°	11.3	12.6	15.1	15.1	15.1
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)