

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: P842919

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-UNV-B50
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

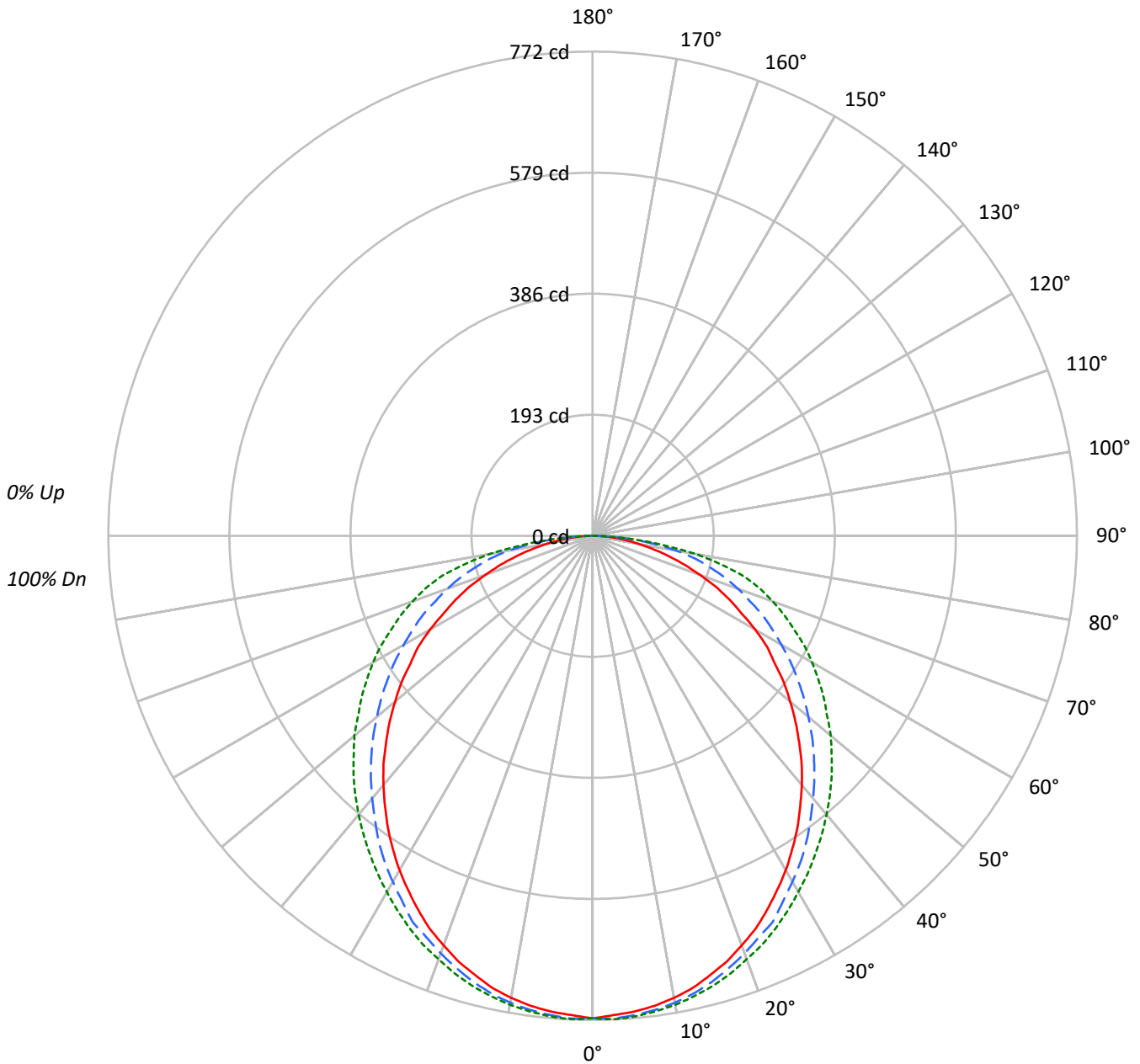
Lumens per Lamp: N/A
Luminaire Lumens: 2263.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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	86	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56																			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48																			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36																			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32																			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28																			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25																			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2183	2183	2183
5°	2170	2185	2192
10°	2156	2178	2188
15°	2129	2162	2182
20°	2098	2139	2169
25°	2060	2127	2162
30°	2018	2087	2149
35°	1971	2060	2145
40°	1922	2025	2149
45°	1868	2002	2163
50°	1814	1981	2188
55°	1752	1972	2225
60°	1700	1972	2294
65°	1615	2004	2377
70°	1507	2042	2531
75°	1380	2113	2735
80°	1201	2201	2693
85°	1052	1957	2142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	3.2
10°-20°	207.3	9.2
20°-30°	311.2	13.7
30°-40°	371.8	16.4
40°-50°	386.6	17.1
50°-60°	358.3	15.8
60°-70°	293.9	13.0
70°-80°	198.7	8.8
80°-90°	62.5	2.8
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°	591.2	26.1
0°-40°	963.0	42.6
0°-60°	1707.9	75.5
0°-90°	2263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	762	763	767	768	769	72
15°	725	728	736	740	743	204
25°	658	664	679	687	690	303
35°	569	577	595	612	619	356
45°	466	474	499	528	539	359
55°	354	365	399	434	450	318
65°	240	254	298	337	354	238
75°	126	147	193	232	250	133
85°	32	45	60	67	66	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.4	769.4	769.4	769.4	769.4
2.5°	765.0	767.2	770.5	771.7	771.7
5°	761.7	762.7	767.2	768.4	769.4
7.5°	756.0	758.3	762.7	763.9	765.0
10°	748.2	750.5	756.0	758.3	759.4
12.5°	738.3	740.5	747.2	750.5	751.6
15°	724.9	728.2	736.0	740.5	742.7
17.5°	711.6	714.8	722.7	729.3	731.6
20°	694.8	702.6	708.3	717.1	718.2
22.5°	678.2	682.6	692.6	701.5	706.0
25°	658.1	663.7	679.3	687.1	690.4
27.5°	637.0	644.8	657.0	669.2	673.6
30°	615.8	621.3	637.0	651.4	655.9
32.5°	592.4	600.2	616.9	631.4	638.1
35°	569.0	576.7	594.6	612.4	619.2
37.5°	543.5	552.3	570.2	591.2	600.2
40°	518.9	525.6	546.7	572.3	580.1
42.5°	493.3	501.1	523.3	551.3	560.1
45°	465.5	474.4	498.9	527.8	538.9
47.5°	438.7	447.7	474.4	503.3	516.6
50°	410.9	422.0	448.7	482.1	495.6
52.5°	384.2	394.2	424.3	458.8	471.0
55°	354.1	365.3	398.7	434.2	449.8
57.5°	329.6	337.4	374.1	410.9	426.5
60°	299.5	309.6	347.4	386.3	404.2
62.5°	267.3	283.9	322.9	363.0	380.8
65°	240.5	253.9	298.4	337.4	354.1
67.5°	212.7	227.2	270.5	311.9	330.8
70°	181.6	200.5	246.1	287.3	305.1
72.5°	153.6	173.8	220.5	260.6	279.5
75°	125.9	146.9	192.7	231.6	249.5
77.5°	99.2	122.5	167.1	197.1	208.3
80°	73.5	95.8	134.7	155.9	164.8
82.5°	51.3	70.2	99.2	110.3	112.5
85°	32.3	44.6	60.1	66.8	65.8
87.5°	14.5	17.8	22.3	24.6	23.3
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)