

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: P881075

Luminaire Tested: **22CZ2-24VHE-UNV-B40**

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: P881075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24VHE-UNV-B40
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

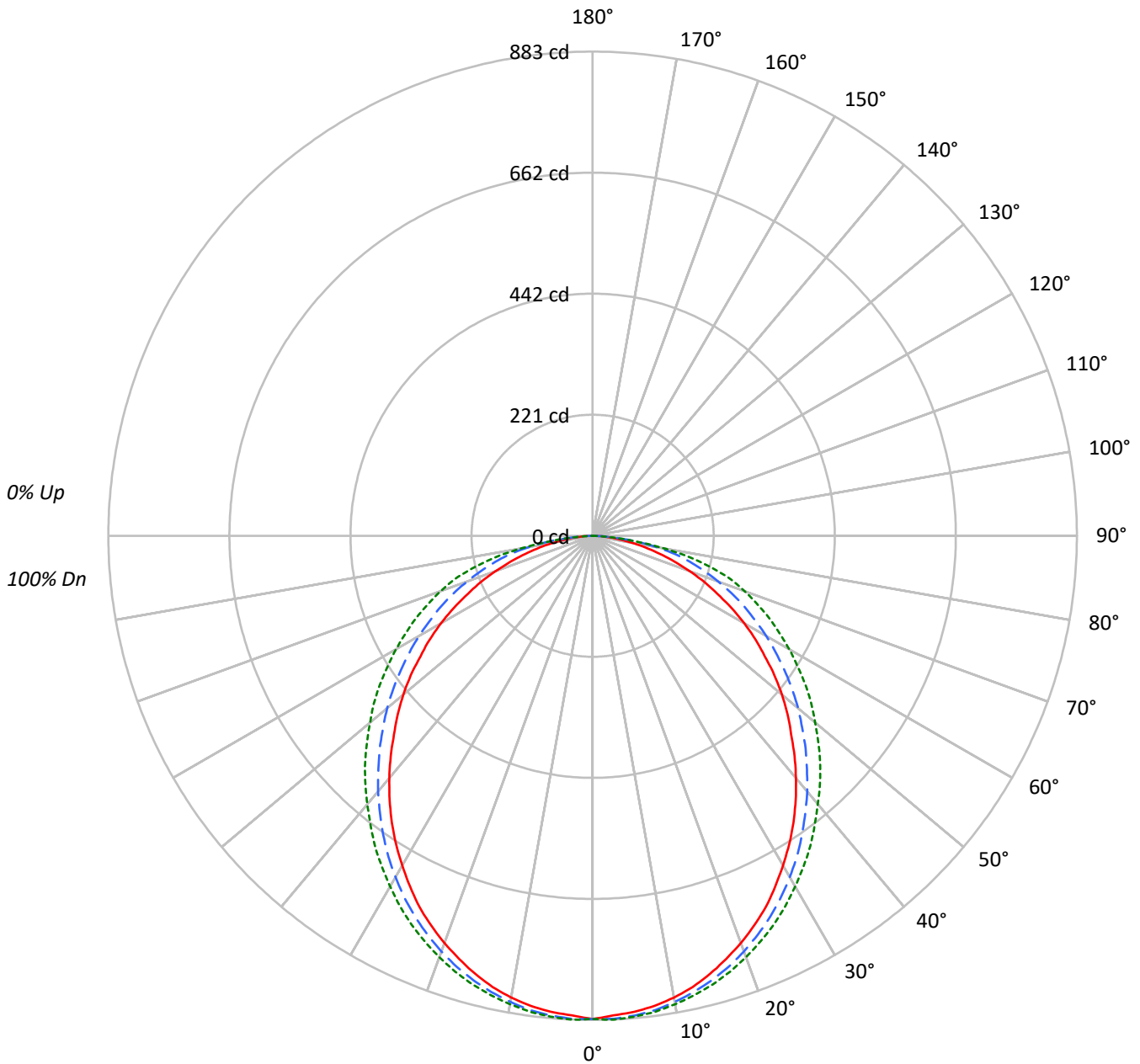
Lumens per Lamp: N/A
Luminaire Lumens: 2430.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83																			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2501	2501	2501
5°	2482	2501	2507
10°	2464	2487	2499
15°	2430	2465	2488
20°	2386	2436	2469
25°	2339	2399	2449
30°	2275	2356	2420
35°	2211	2306	2396
40°	2137	2254	2367
45°	2055	2203	2355
50°	1988	2158	2337
55°	1895	2111	2342
60°	1810	2075	2349
65°	1683	2048	2386
70°	1556	2019	2445
75°	1391	2011	2461
80°	1165	1905	2147
85°	905	1306	1221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	3.4
10°-20°	236.3	9.7
20°-30°	352.4	14.5
30°-40°	416.0	17.1
40°-50°	424.0	17.4
50°-60°	382.4	15.7
60°-70°	300.5	12.4
70°-80°	188.2	7.7
80°-90°	46.9	1.9
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°	672.0	27.7
0°-40°	1088.0	44.8
0°-60°	1894.4	78.0
0°-90°	2430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	872	874	878	880	880	83
15°	827	831	839	845	847	233
25°	747	753	766	778	782	344
35°	638	646	666	684	692	399
45°	512	523	549	576	587	396
55°	383	395	427	460	473	344
65°	251	266	305	339	355	250
75°	127	146	183	216	224	135
85°	28	35	40	40	38	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	881.3	881.3	881.3	881.3	881.3
2.5°	875.6	877.7	881.8	883.3	883.3
5°	871.5	873.5	878.2	880.2	880.2
7.5°	864.8	866.8	872.6	875.1	875.6
10°	855.1	857.6	863.2	867.4	867.4
12.5°	842.8	845.3	852.4	857.6	858.1
15°	827.3	830.9	839.2	845.3	846.8
17.5°	809.4	815.0	824.2	832.0	833.5
20°	790.3	795.9	806.7	815.5	817.6
22.5°	769.3	774.4	787.2	798.1	800.6
25°	747.2	752.9	766.3	778.0	782.2
27.5°	721.0	727.7	743.6	756.9	761.1
30°	694.3	702.6	719.0	733.8	738.5
32.5°	667.1	674.8	693.2	709.2	715.4
35°	638.3	646.5	665.6	684.0	691.8
37.5°	608.0	616.3	636.9	657.8	665.0
40°	576.8	586.5	608.6	631.1	638.9
42.5°	544.9	555.1	578.2	603.5	613.6
45°	512.0	523.2	549.0	575.7	586.9
47.5°	482.2	491.4	518.2	547.4	558.2
50°	450.3	459.1	488.9	518.2	529.5
52.5°	418.0	426.3	458.1	488.9	502.8
55°	383.1	394.9	426.8	459.6	473.4
57.5°	352.3	363.1	396.0	429.3	442.7
60°	318.9	330.2	365.6	399.6	414.0
62.5°	285.5	297.8	333.7	370.3	383.7
65°	250.6	266.0	305.0	338.9	355.4
67.5°	220.9	235.7	274.3	309.7	324.1
70°	187.5	204.9	243.4	279.4	294.7
72.5°	156.1	173.6	213.1	249.1	264.4
75°	126.9	145.8	183.4	216.2	224.5
77.5°	98.6	116.6	154.1	173.1	181.8
80°	71.3	88.8	116.6	129.4	131.4
82.5°	48.2	63.2	79.1	82.7	80.7
85°	27.8	35.4	40.1	40.1	37.5
87.5°	11.3	11.3	9.8	6.1	3.6
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)