

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: P881082

Luminaire Tested: **22CZ2-29VHE-RDP-UNV-B50**

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: P881082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474998)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-29VHE-RDP-UNV-B50  
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

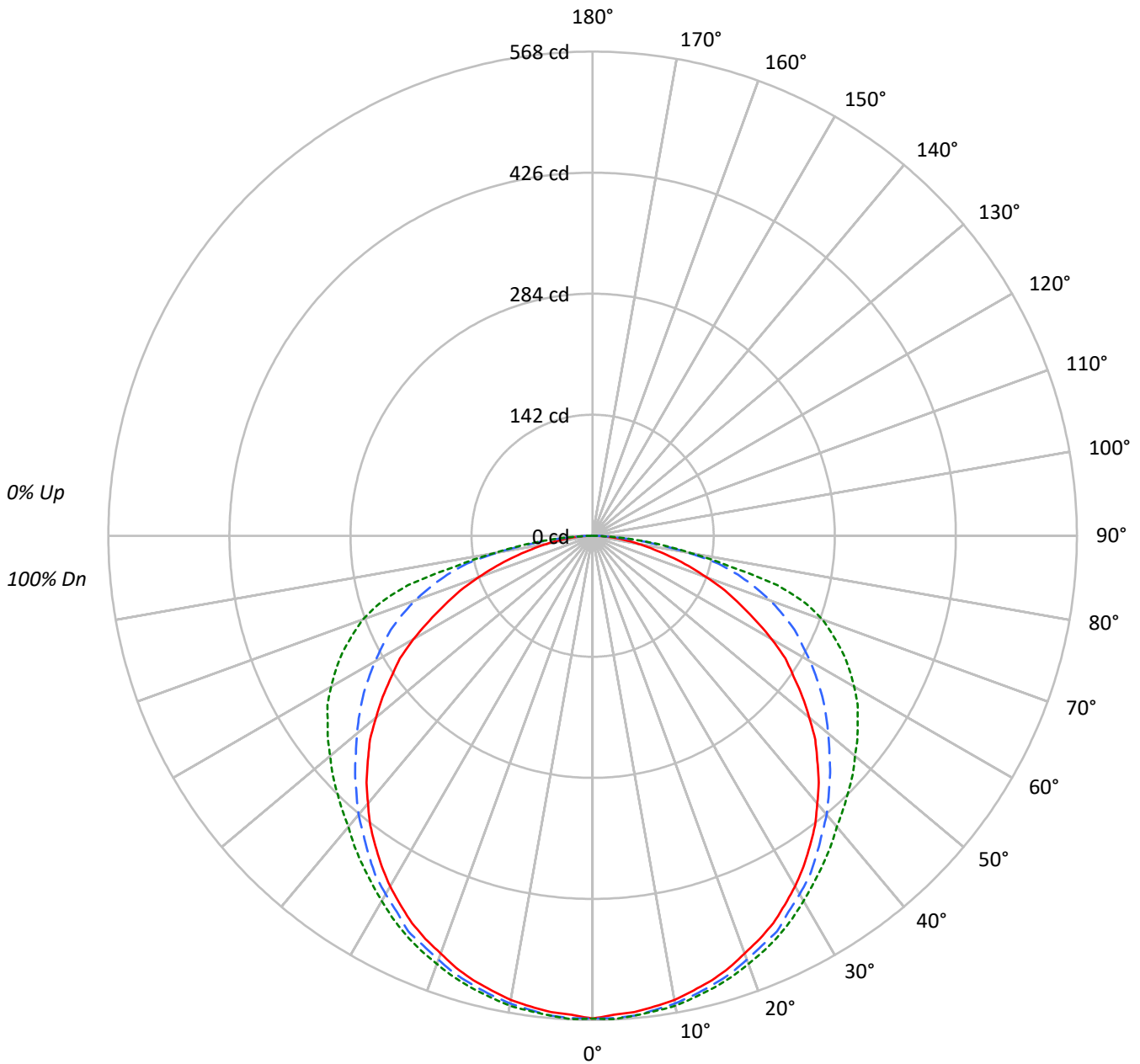
Lumens per Lamp: N/A  
Luminaire Lumens: 1803.0 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
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				20				
RC	80				70				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	100	96	92	96	92	89	92	89	86	88	86	84	82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1607	1607	1607
5°	1598	1609	1609
10°	1593	1605	1613
15°	1586	1601	1613
20°	1574	1598	1614
25°	1570	1603	1620
30°	1556	1591	1621
35°	1539	1585	1631
40°	1518	1582	1651
45°	1496	1581	1703
50°	1464	1592	1774
55°	1424	1628	1876
60°	1377	1671	2010
65°	1282	1755	2173
70°	1177	1838	2377
75°	1033	1934	2458
80°	889	1840	1930
85°	778	1338	1468



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	3.0
10°-20°	153.8	8.5
20°-30°	234.7	13.0
30°-40°	286.5	15.9
40°-50°	306.4	17.0
50°-60°	295.7	16.4
60°-70°	254.6	14.1
70°-80°	172.3	9.6
80°-90°	45.4	2.5
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°	442.1	24.5
0°-40°	728.6	40.4
0°-60°	1330.7	73.8
0°-90°	1803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1803.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	561	562	565	565	565	53
15°	540	541	545	548	549	152
25°	501	504	512	515	517	231
35°	444	448	458	467	471	278
45°	373	379	394	414	424	288
55°	288	297	329	362	379	258
65°	191	210	261	302	324	190
75°	94	125	176	212	224	101
85°	24	33	41	42	45	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	566.4	566.4	566.4	566.4	566.4
2.5°	562.4	563.6	566.4	566.4	567.6
5°	561.0	562.4	565.0	565.0	565.0
7.5°	557.0	558.4	561.0	562.4	562.4
10°	553.0	554.4	557.0	558.4	559.8
12.5°	546.4	547.7	551.7	554.4	554.4
15°	539.9	541.1	545.1	547.7	549.1
17.5°	531.7	534.5	538.5	541.1	542.5
20°	521.3	523.9	529.1	533.3	534.5
22.5°	512.0	514.7	519.9	523.9	526.5
25°	501.4	504.0	512.0	514.7	517.3
27.5°	488.1	490.8	497.4	502.6	506.6
30°	474.9	477.5	485.5	492.2	494.8
32.5°	460.2	464.2	473.5	478.9	482.7
35°	444.2	448.2	457.6	466.8	470.9
37.5°	428.4	432.4	441.6	453.6	458.9
40°	409.9	415.1	427.1	443.0	445.6
42.5°	392.6	399.2	409.9	428.4	435.0
45°	372.7	379.3	394.0	413.9	424.3
47.5°	354.1	360.7	376.7	400.6	413.9
50°	331.6	340.8	360.7	388.6	401.8
52.5°	310.3	318.3	344.9	375.3	391.4
55°	287.8	297.1	329.0	362.1	379.3
57.5°	268.0	275.8	311.7	348.9	368.7
60°	242.7	253.3	294.4	334.2	354.1
62.5°	216.1	232.1	277.2	318.3	339.4
65°	190.9	209.5	261.4	302.3	323.6
67.5°	168.4	188.3	241.5	285.2	305.1
70°	141.9	167.2	221.6	264.0	286.5
72.5°	118.1	145.9	199.0	241.5	261.4
75°	94.2	124.7	176.4	212.2	224.2
77.5°	72.9	102.2	151.1	161.8	163.2
80°	54.4	80.9	112.6	114.0	118.1
82.5°	37.2	57.0	72.9	79.5	80.9
85°	23.9	33.2	41.1	42.4	45.1
87.5°	10.7	12.0	14.6	13.3	13.3
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)