

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: P881080

Luminaire Tested: **22CZ2-29VHE-RDP-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: P881080  
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-B35  
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

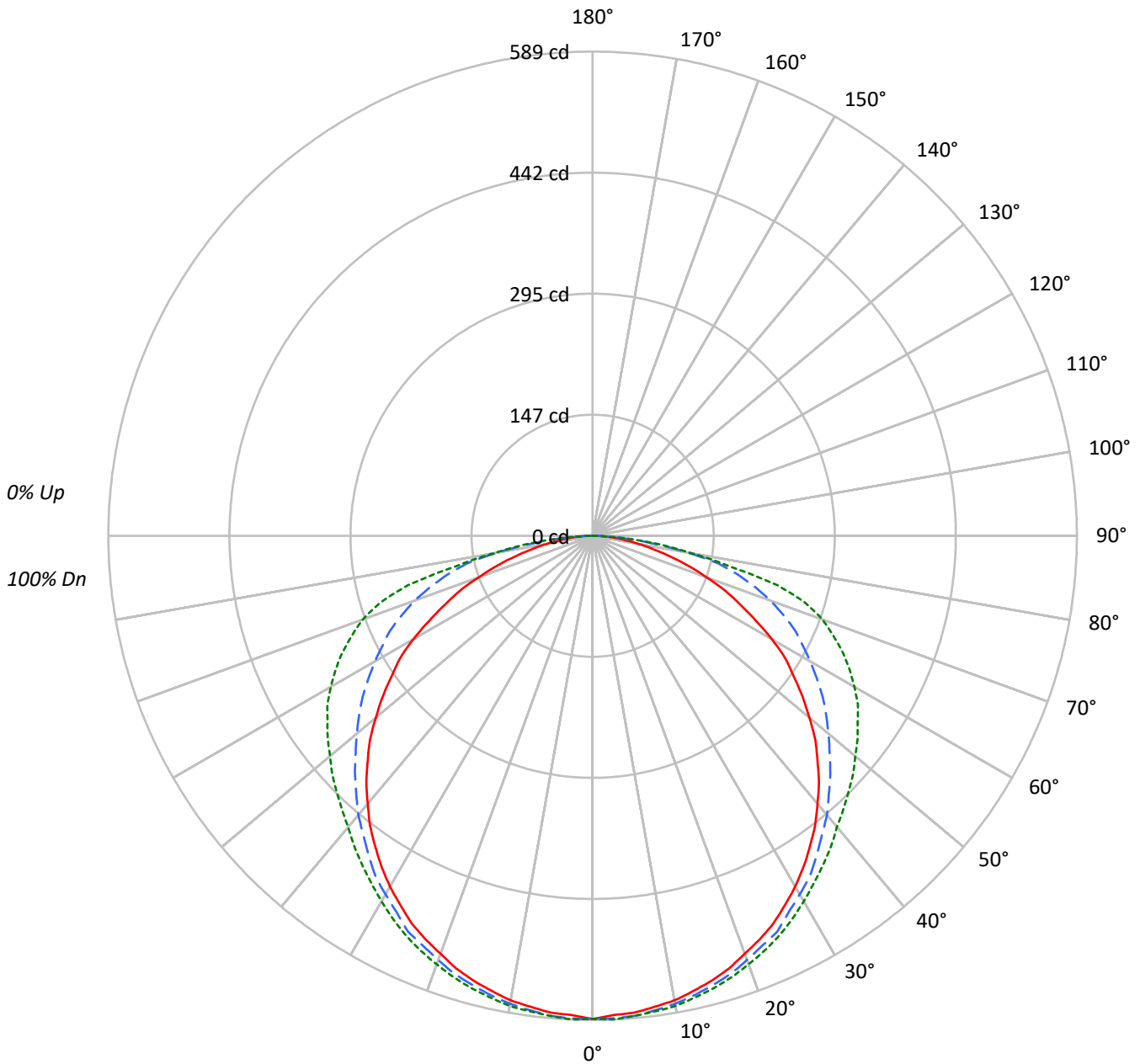
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1871.0 lumens  
Efficiency: N/A  
Efficacy: 85.0 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°	1668	1668	1668
5°	1658	1670	1670
10°	1654	1665	1674
15°	1646	1662	1674
20°	1634	1658	1675
25°	1629	1663	1681
30°	1615	1651	1682
35°	1597	1645	1693
40°	1576	1642	1713
45°	1552	1640	1767
50°	1519	1652	1841
55°	1477	1689	1947
60°	1430	1734	2086
65°	1330	1822	2255
70°	1222	1907	2467
75°	1072	2006	2550
80°	922	1910	2003
85°	807	1387	1524



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.6	3.0
10°-20°	159.6	8.5
20°-30°	243.5	13.0
30°-40°	297.3	15.9
40°-50°	317.9	17.0
50°-60°	306.9	16.4
60°-70°	264.2	14.1
70°-80°	178.8	9.6
80°-90°	47.2	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°	458.7	24.5
0°-40°	756.1	40.4
0°-60°	1380.9	73.8
0°-90°	1871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1871.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	582	584	586	586	586	55
15°	560	562	566	568	570	158
25°	520	523	531	534	537	239
35°	461	465	475	484	489	289
45°	387	394	409	430	440	299
55°	299	308	341	376	394	268
65°	198	217	271	314	336	197
75°	98	129	183	220	233	105
85°	25	34	43	44	47	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	587.7	587.7	587.7	587.7	587.7
2.5°	583.6	584.9	587.7	587.7	589.0
5°	582.2	583.6	586.3	586.3	586.3
7.5°	578.0	579.5	582.2	583.6	583.6
10°	573.9	575.3	578.0	579.5	580.9
12.5°	567.1	568.3	572.5	575.3	575.3
15°	560.2	561.5	565.6	568.3	569.8
17.5°	551.8	554.7	558.8	561.5	562.9
20°	541.0	543.7	549.1	553.4	554.7
22.5°	531.3	534.1	539.5	543.7	546.4
25°	520.3	523.0	531.3	534.1	536.8
27.5°	506.5	509.3	516.2	521.6	525.7
30°	492.8	495.5	503.8	510.7	513.5
32.5°	477.5	481.7	491.4	496.9	500.9
35°	461.0	465.1	474.8	484.4	488.7
37.5°	444.6	448.7	458.3	470.7	476.3
40°	425.4	430.8	443.2	459.7	462.4
42.5°	407.4	414.2	425.4	444.6	451.4
45°	386.7	393.6	408.8	429.5	440.3
47.5°	367.5	374.3	390.9	415.7	429.5
50°	344.1	353.7	374.3	403.3	417.0
52.5°	322.0	330.3	357.9	389.4	406.1
55°	298.6	308.3	341.4	375.8	393.6
57.5°	278.1	286.2	323.4	362.1	382.6
60°	251.9	262.9	305.5	346.8	367.5
62.5°	224.2	240.9	287.7	330.3	352.2
65°	198.1	217.4	271.3	313.7	335.8
67.5°	174.8	195.4	250.6	295.9	316.6
70°	147.3	173.5	229.9	274.0	297.4
72.5°	122.6	151.4	206.6	250.6	271.3
75°	97.8	129.4	183.0	220.2	232.6
77.5°	75.7	106.1	156.8	167.9	169.3
80°	56.4	84.0	116.9	118.3	122.6
82.5°	38.6	59.2	75.7	82.5	84.0
85°	24.8	34.5	42.6	44.0	46.8
87.5°	11.1	12.4	15.1	13.8	13.8
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)