

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: P842924

Luminaire Tested: **22CZ2-29HE-RDP-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274731)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-29HE-RDP-UNV-B40  
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

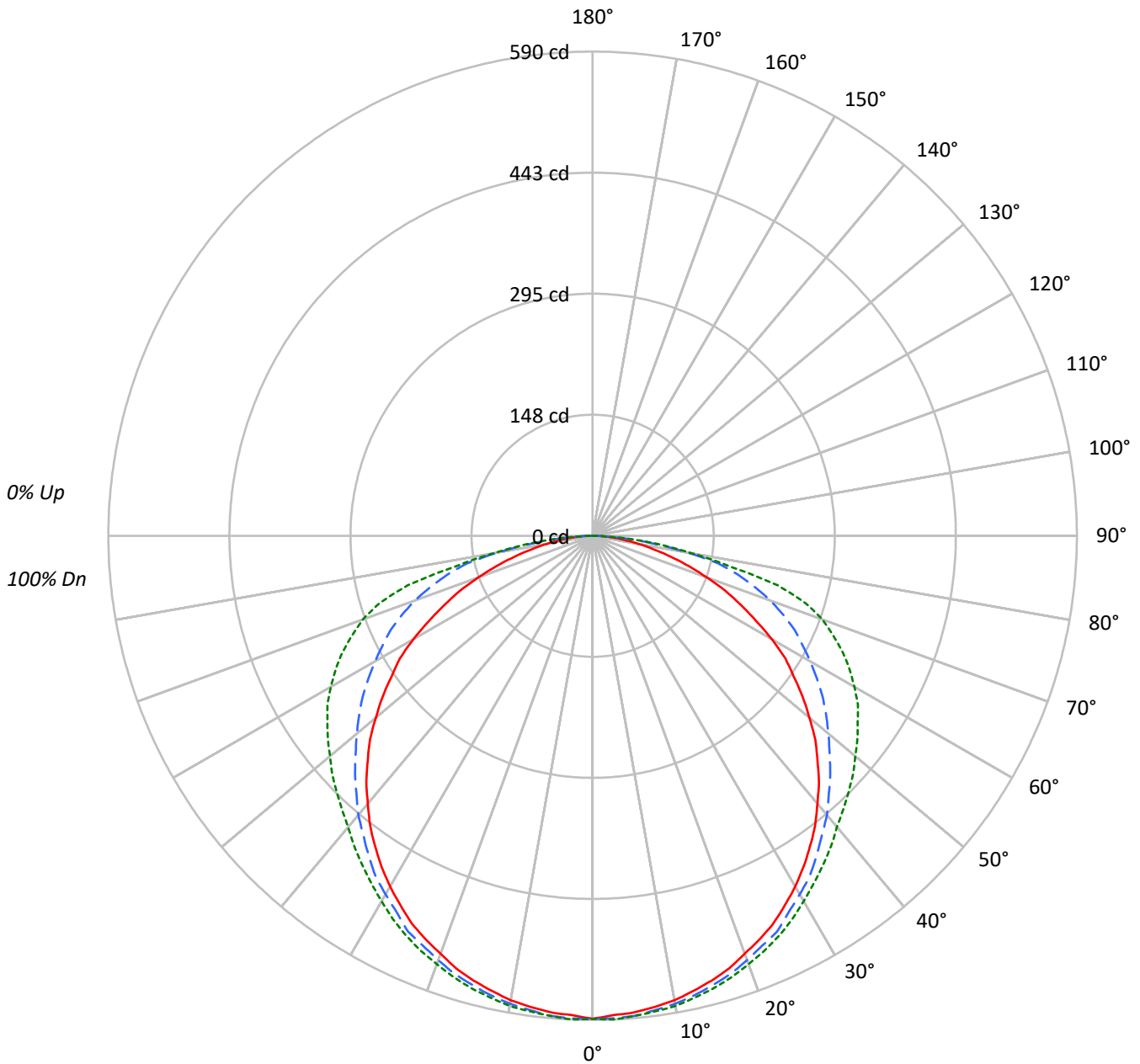
Lumens per Lamp: N/A  
Luminaire Lumens: 1874.0 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P842924

CATALOG NUMBER: 22CZ2-29HE-RDP-UNV-B40

### 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	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°	1670	1670	1670
5°	1661	1673	1673
10°	1656	1668	1676
15°	1648	1665	1677
20°	1636	1661	1677
25°	1632	1666	1683
30°	1617	1653	1685
35°	1600	1648	1696
40°	1578	1645	1716
45°	1555	1643	1770
50°	1522	1655	1844
55°	1480	1691	1951
60°	1431	1737	2089
65°	1333	1824	2259
70°	1223	1911	2470
75°	1074	2010	2553
80°	923	1915	2005
85°	804	1390	1524



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	3.0
10°-20°	159.9	8.5
20°-30°	243.9	13.0
30°-40°	297.8	15.9
40°-50°	318.5	17.0
50°-60°	307.4	16.4
60°-70°	264.6	14.1
70°-80°	179.0	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°	459.5	24.5
0°-40°	757.3	40.4
0°-60°	1383.2	73.8
0°-90°	1874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1874.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	589	589	589	589	589	
5°	583	585	587	587	587	55
15°	561	562	567	569	571	158
25°	521	524	532	535	538	240
35°	462	466	476	485	490	289
45°	387	394	409	430	441	299
55°	299	309	342	376	394	268
65°	199	218	272	314	336	197
75°	98	130	183	221	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°	588.6	588.6	588.6	588.6	588.6
2.5°	584.6	585.9	588.6	588.6	590.1
5°	583.1	584.6	587.3	587.3	587.3
7.5°	579.0	580.5	583.1	584.6	584.6
10°	574.8	576.3	579.0	580.5	581.8
12.5°	568.0	569.3	573.5	576.3	576.3
15°	561.0	562.5	566.7	569.3	570.8
17.5°	552.9	555.5	559.7	562.5	563.8
20°	541.8	544.6	550.1	554.2	555.5
22.5°	532.1	535.0	540.4	544.6	547.2
25°	521.2	523.8	532.1	535.0	537.6
27.5°	507.4	510.1	517.0	522.5	526.7
30°	493.6	496.3	504.6	511.4	514.2
32.5°	478.3	482.5	492.1	497.6	501.8
35°	461.9	465.9	475.7	485.3	489.5
37.5°	445.3	449.5	459.1	471.5	477.0
40°	426.0	431.5	444.0	460.4	463.2
42.5°	408.1	414.9	426.0	445.3	452.1
45°	387.4	394.3	409.4	430.2	441.1
47.5°	368.1	374.9	391.5	416.4	430.2
50°	344.7	354.3	374.9	404.0	417.7
52.5°	322.6	330.9	358.5	390.2	406.6
55°	299.2	308.8	341.9	376.4	394.3
57.5°	278.4	286.7	323.9	362.6	383.2
60°	252.2	263.3	306.0	347.3	368.1
62.5°	224.6	241.2	288.1	330.9	353.0
65°	198.6	217.8	271.6	314.3	336.4
67.5°	175.0	195.8	250.9	296.4	317.1
70°	147.4	173.7	230.3	274.3	297.7
72.5°	122.7	151.6	206.7	250.9	271.6
75°	98.0	129.5	183.3	220.7	232.9
77.5°	75.9	106.1	157.2	168.2	169.5
80°	56.5	84.0	117.2	118.5	122.7
82.5°	38.5	59.3	75.9	82.7	84.0
85°	24.7	34.5	42.7	44.2	46.8
87.5°	11.0	12.5	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)