

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: P843106

Luminaire Tested: **24CZ2-50-S-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843106  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-50-S-UNV-B35  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

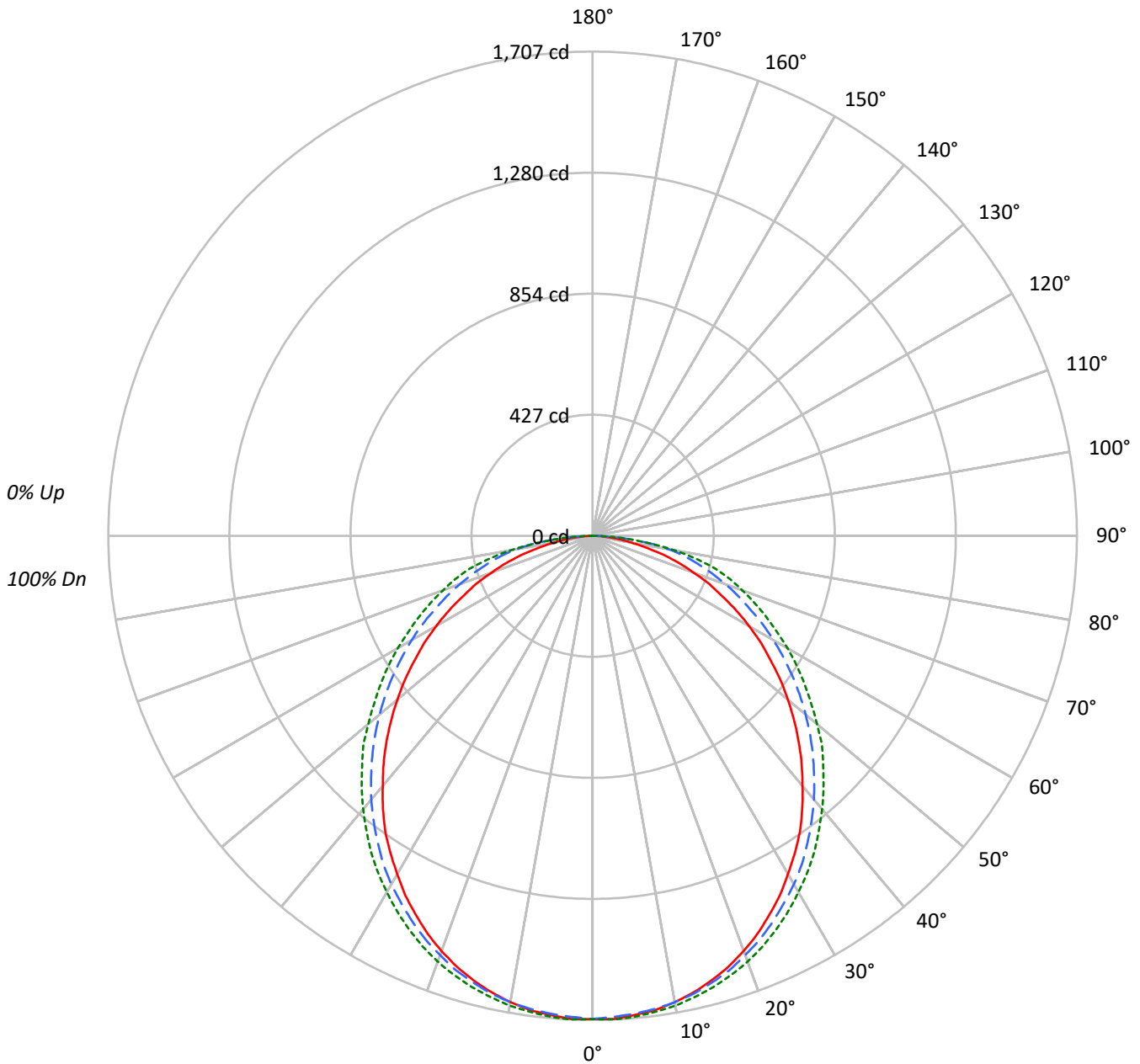
Lumens per Lamp: N/A  
Luminaire Lumens: 4850.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 40  
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

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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24			

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

	0°	45°	90°
0°	2405	2405	2405
5°	2403	2396	2412
10°	2393	2393	2411
15°	2370	2381	2406
20°	2339	2362	2399
25°	2296	2339	2385
30°	2244	2312	2365
35°	2195	2275	2346
40°	2120	2236	2319
45°	2051	2193	2294
50°	1972	2151	2266
55°	1884	2111	2244
60°	1796	2078	2239
65°	1682	2042	2253
70°	1557	2053	2314
75°	1395	2092	2445
80°	1127	2216	2391
85°	847	1945	1896



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	3.3
10°-20°	460.9	9.5
20°-30°	692.8	14.3
30°-40°	825.3	17.0
40°-50°	844.6	17.4
50°-60°	760.4	15.7
60°-70°	597.2	12.3
70°-80°	387.6	8.0
80°-90°	119.9	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°	1315.0	27.1
0°-40°	2140.3	44.1
0°-60°	3745.4	77.2
0°-90°	4850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4850.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1696	1699	1692	1701	1702	161
15°	1622	1627	1630	1644	1647	457
25°	1474	1487	1502	1527	1531	679
35°	1274	1289	1320	1353	1362	795
45°	1028	1052	1098	1140	1149	792
55°	766	800	858	903	912	686
65°	504	542	612	662	675	501
75°	256	305	384	436	448	271
85°	52	97	120	117	117	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1703.9	1703.9	1703.9	1703.9	1703.9
2.5°	1705.4	1705.4	1697.6	1705.4	1706.9
5°	1696.1	1699.3	1691.5	1700.8	1702.2
7.5°	1686.8	1686.8	1682.2	1691.5	1693.2
10°	1669.9	1671.4	1669.9	1680.7	1682.2
12.5°	1648.4	1651.4	1653.1	1663.8	1665.3
15°	1622.2	1626.9	1629.9	1643.8	1646.9
17.5°	1592.9	1597.6	1605.2	1620.6	1623.7
20°	1557.5	1563.6	1572.9	1592.9	1597.6
22.5°	1519.0	1525.2	1540.6	1559.0	1566.7
25°	1474.3	1486.6	1502.0	1526.7	1531.3
27.5°	1429.6	1440.3	1460.4	1486.6	1492.9
30°	1377.2	1394.1	1418.8	1445.0	1451.1
32.5°	1326.4	1343.3	1372.6	1400.4	1408.1
35°	1274.0	1289.4	1320.3	1352.6	1361.8
37.5°	1213.9	1233.9	1267.9	1300.2	1309.5
40°	1150.8	1175.5	1213.9	1247.9	1258.6
42.5°	1090.7	1116.8	1155.4	1192.4	1204.6
45°	1027.5	1052.2	1098.5	1140.0	1149.3
47.5°	962.8	990.6	1039.8	1081.4	1096.8
50°	898.2	927.5	979.8	1022.9	1032.2
52.5°	833.4	864.2	919.7	965.9	970.6
55°	765.6	799.6	858.1	902.8	912.1
57.5°	704.0	733.4	796.5	842.7	853.4
60°	636.3	668.6	736.3	779.6	793.3
62.5°	571.5	605.5	676.4	719.4	731.7
65°	503.8	542.4	611.6	662.4	674.7
67.5°	445.3	482.2	556.1	605.5	617.7
70°	377.3	419.1	497.6	548.5	560.7
72.5°	318.9	361.9	440.6	489.8	508.4
75°	255.8	305.0	383.7	436.0	448.3
77.5°	194.1	251.1	331.1	371.2	371.2
80°	138.7	198.8	272.7	291.2	294.2
82.5°	90.9	149.4	201.8	200.3	200.3
85°	52.3	97.1	120.1	117.1	117.1
87.5°	20.0	40.1	43.1	43.1	41.6
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)