

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: P843046

Luminaire Tested: **24CZ2-40-S-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843046  
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: 24CZ2-40-S-UNV-B35  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

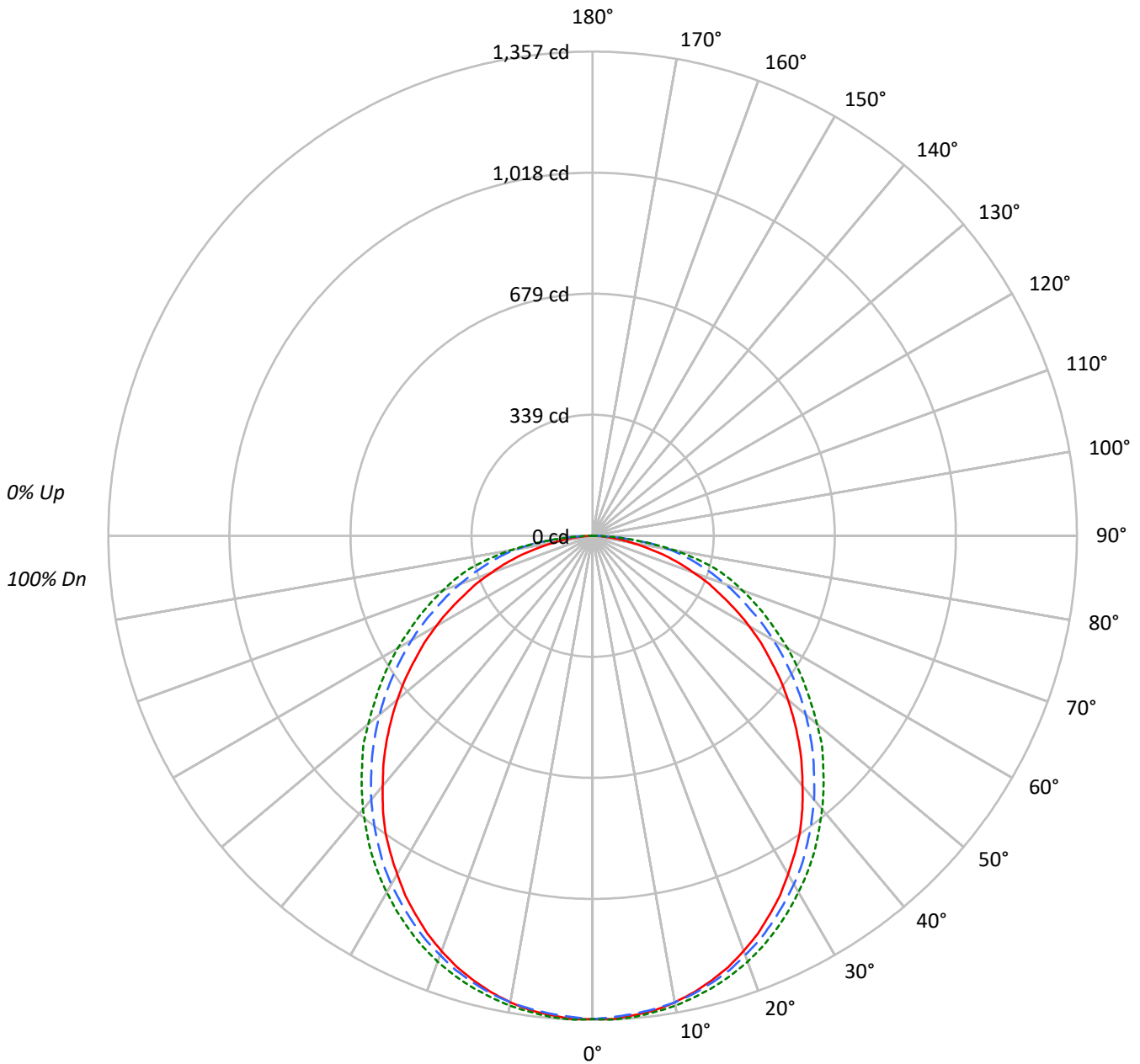
Lumens per Lamp: N/A  
Luminaire Lumens: 3856.0 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
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°	1912	1912	1912
5°	1910	1905	1917
10°	1903	1903	1917
15°	1885	1893	1913
20°	1860	1878	1908
25°	1825	1860	1896
30°	1784	1838	1880
35°	1745	1809	1865
40°	1686	1778	1844
45°	1631	1743	1824
50°	1568	1710	1802
55°	1498	1679	1784
60°	1428	1652	1780
65°	1337	1624	1791
70°	1238	1632	1840
75°	1109	1663	1943
80°	896	1762	1901
85°	674	1546	1508



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.2	3.3
10°-20°	366.4	9.5
20°-30°	550.8	14.3
30°-40°	656.1	17.0
40°-50°	671.5	17.4
50°-60°	604.6	15.7
60°-70°	474.8	12.3
70°-80°	308.1	8.0
80°-90°	95.3	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°	1045.5	27.1
0°-40°	1701.7	44.1
0°-60°	2977.8	77.2
0°-90°	3856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3856.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1348	1351	1345	1352	1353	128
15°	1290	1294	1296	1307	1309	364
25°	1172	1182	1194	1214	1218	540
35°	1013	1025	1050	1075	1083	632
45°	817	837	873	906	914	630
55°	609	636	682	718	725	546
65°	400	431	486	527	536	399
75°	203	242	305	347	356	215
85°	42	77	96	93	93	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1354.7	1354.7	1354.7	1354.7	1354.7
2.5°	1355.9	1355.9	1349.7	1355.9	1357.1
5°	1348.5	1351.0	1344.8	1352.2	1353.4
7.5°	1341.1	1341.1	1337.4	1344.8	1346.1
10°	1327.7	1328.9	1327.7	1336.3	1337.4
12.5°	1310.6	1312.9	1314.3	1322.8	1324.0
15°	1289.8	1293.5	1295.8	1306.9	1309.4
17.5°	1266.5	1270.1	1276.2	1288.4	1291.0
20°	1238.3	1243.1	1250.5	1266.5	1270.1
22.5°	1207.7	1212.6	1224.8	1239.4	1245.6
25°	1172.2	1181.9	1194.1	1213.8	1217.5
27.5°	1136.6	1145.2	1161.1	1181.9	1186.9
30°	1095.0	1108.4	1128.0	1148.8	1153.7
32.5°	1054.5	1068.0	1091.3	1113.4	1119.5
35°	1012.9	1025.2	1049.7	1075.3	1082.7
37.5°	965.1	981.1	1008.1	1033.7	1041.1
40°	914.9	934.6	965.1	992.1	1000.7
42.5°	867.1	887.9	918.6	948.0	957.7
45°	817.0	836.6	873.3	906.4	913.8
47.5°	765.5	787.6	826.7	859.7	872.0
50°	714.1	737.4	779.0	813.3	820.6
52.5°	662.6	687.1	731.2	768.0	771.6
55°	608.7	635.7	682.2	717.8	725.2
57.5°	559.7	583.1	633.2	670.0	678.5
60°	505.9	531.6	585.4	619.8	630.7
62.5°	454.4	481.4	537.7	572.0	581.7
65°	400.5	431.2	486.2	526.7	536.4
67.5°	354.0	383.4	442.1	481.4	491.1
70°	300.0	333.2	395.6	436.1	445.8
72.5°	253.5	287.8	350.3	389.4	404.2
75°	203.4	242.5	305.0	346.6	356.4
77.5°	154.4	199.7	263.3	295.1	295.1
80°	110.2	158.0	216.8	231.5	233.9
82.5°	72.3	118.8	160.4	159.2	159.2
85°	41.6	77.2	95.5	93.1	93.1
87.5°	15.9	31.9	34.2	34.2	33.1
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)