

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: P732151

Luminaire Tested: **24CZ2-35-S-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732151  
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: 24CZ2-35-S-B2750-W2D-2700K  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

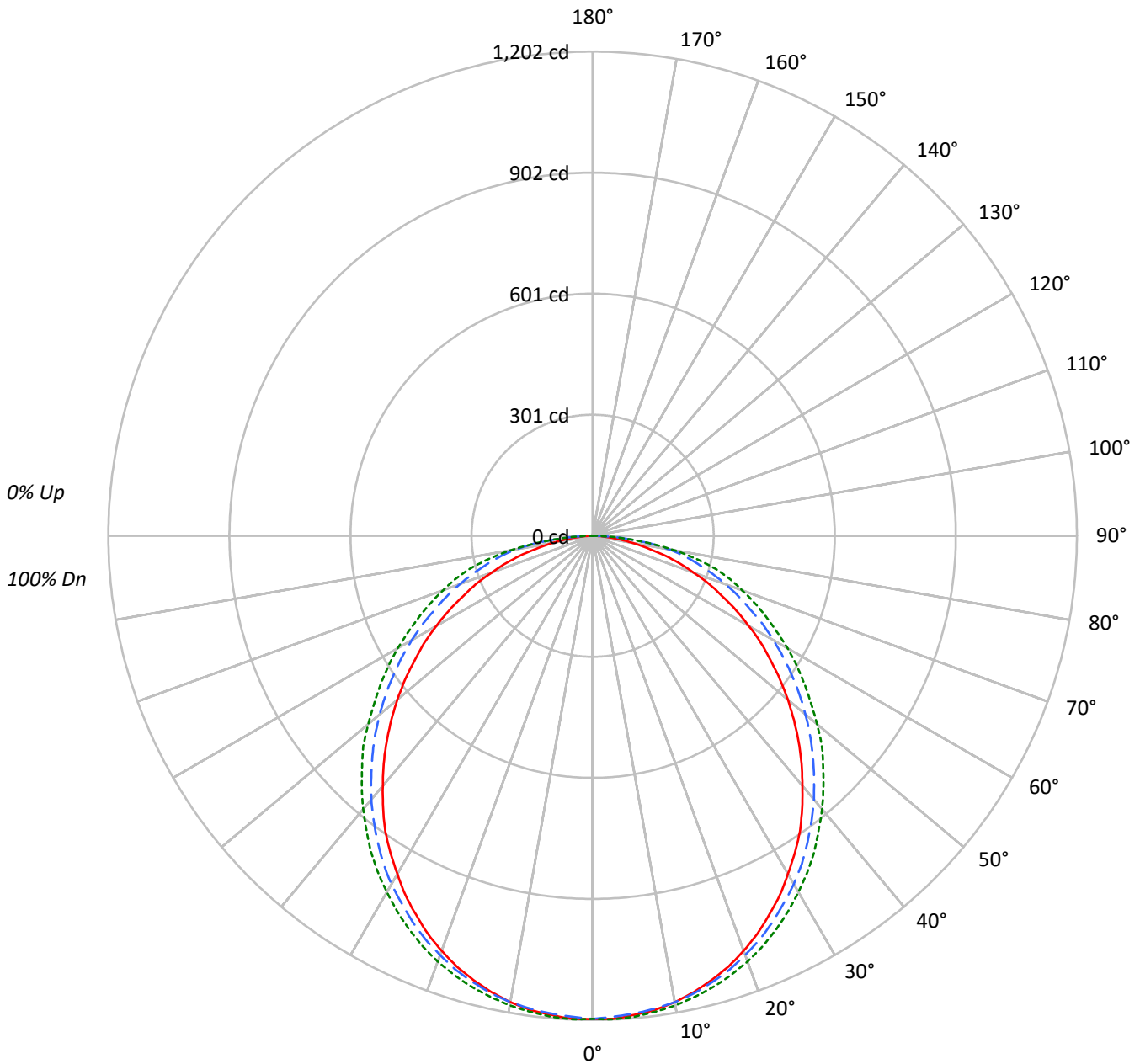
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3414.0 lumens  
Efficiency: N/A  
Efficacy: 121.9 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): 28  
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									
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	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°	1693	1693	1693
5°	1691	1687	1698
10°	1685	1685	1697
15°	1668	1676	1694
20°	1647	1663	1689
25°	1616	1646	1679
30°	1580	1628	1665
35°	1545	1601	1652
40°	1493	1574	1632
45°	1444	1543	1615
50°	1388	1514	1595
55°	1326	1486	1580
60°	1264	1463	1576
65°	1184	1438	1586
70°	1096	1446	1629
75°	982	1473	1720
80°	793	1560	1683
85°	596	1368	1334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.5	3.3
10°-20°	324.4	9.5
20°-30°	487.7	14.3
30°-40°	580.9	17.0
40°-50°	594.5	17.4
50°-60°	535.3	15.7
60°-70°	420.4	12.3
70°-80°	272.8	8.0
80°-90°	84.4	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°	925.7	27.1
0°-40°	1506.6	44.1
0°-60°	2636.4	77.2
0°-90°	3414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3414.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1194	1196	1191	1197	1198	113
15°	1142	1145	1147	1157	1159	322
25°	1038	1046	1057	1075	1078	478
35°	897	908	929	952	959	559
45°	723	741	773	802	809	558
55°	539	563	604	636	642	483
65°	355	382	430	466	475	353
75°	180	215	270	307	316	191
85°	37	68	84	82	82	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1199.4	1199.4	1199.4	1199.4	1199.4
2.5°	1200.5	1200.5	1195.0	1200.5	1201.5
5°	1193.9	1196.1	1190.7	1197.2	1198.2
7.5°	1187.4	1187.4	1184.1	1190.7	1191.8
10°	1175.5	1176.6	1175.5	1183.1	1184.1
12.5°	1160.4	1162.4	1163.6	1171.2	1172.2
15°	1141.9	1145.2	1147.3	1157.1	1159.3
17.5°	1121.3	1124.6	1129.9	1140.8	1143.0
20°	1096.3	1100.6	1107.2	1121.3	1124.6
22.5°	1069.3	1073.6	1084.4	1097.4	1102.9
25°	1037.8	1046.4	1057.3	1074.6	1077.9
27.5°	1006.3	1013.9	1028.0	1046.4	1050.9
30°	969.5	981.4	998.7	1017.2	1021.5
32.5°	933.7	945.6	966.2	985.8	991.2
35°	896.8	907.7	929.4	952.1	958.6
37.5°	854.5	868.6	892.5	915.2	921.8
40°	810.1	827.4	854.5	878.4	886.0
42.5°	767.7	786.2	813.3	839.3	848.0
45°	723.3	740.7	773.2	802.5	809.0
47.5°	677.7	697.3	731.9	761.2	772.0
50°	632.2	652.9	689.7	720.0	726.6
52.5°	586.6	608.3	647.4	679.9	683.2
55°	539.0	562.9	604.0	635.5	642.0
57.5°	495.6	516.2	560.6	593.2	600.8
60°	447.9	470.6	518.3	548.8	558.4
62.5°	402.3	426.2	476.1	506.4	515.0
65°	354.6	381.8	430.5	466.3	474.9
67.5°	313.4	339.4	391.4	426.2	434.8
70°	265.6	295.0	350.3	386.1	394.7
72.5°	224.5	254.8	310.2	344.8	357.9
75°	180.0	214.7	270.1	306.9	315.5
77.5°	136.7	176.8	233.1	261.3	261.3
80°	97.6	139.9	191.9	205.0	207.1
82.5°	64.0	105.2	142.0	141.0	141.0
85°	36.8	68.3	84.5	82.4	82.4
87.5°	14.1	28.2	30.3	30.3	29.3
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)