

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: P732176

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732176  
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: 24CZ2-35HE-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**

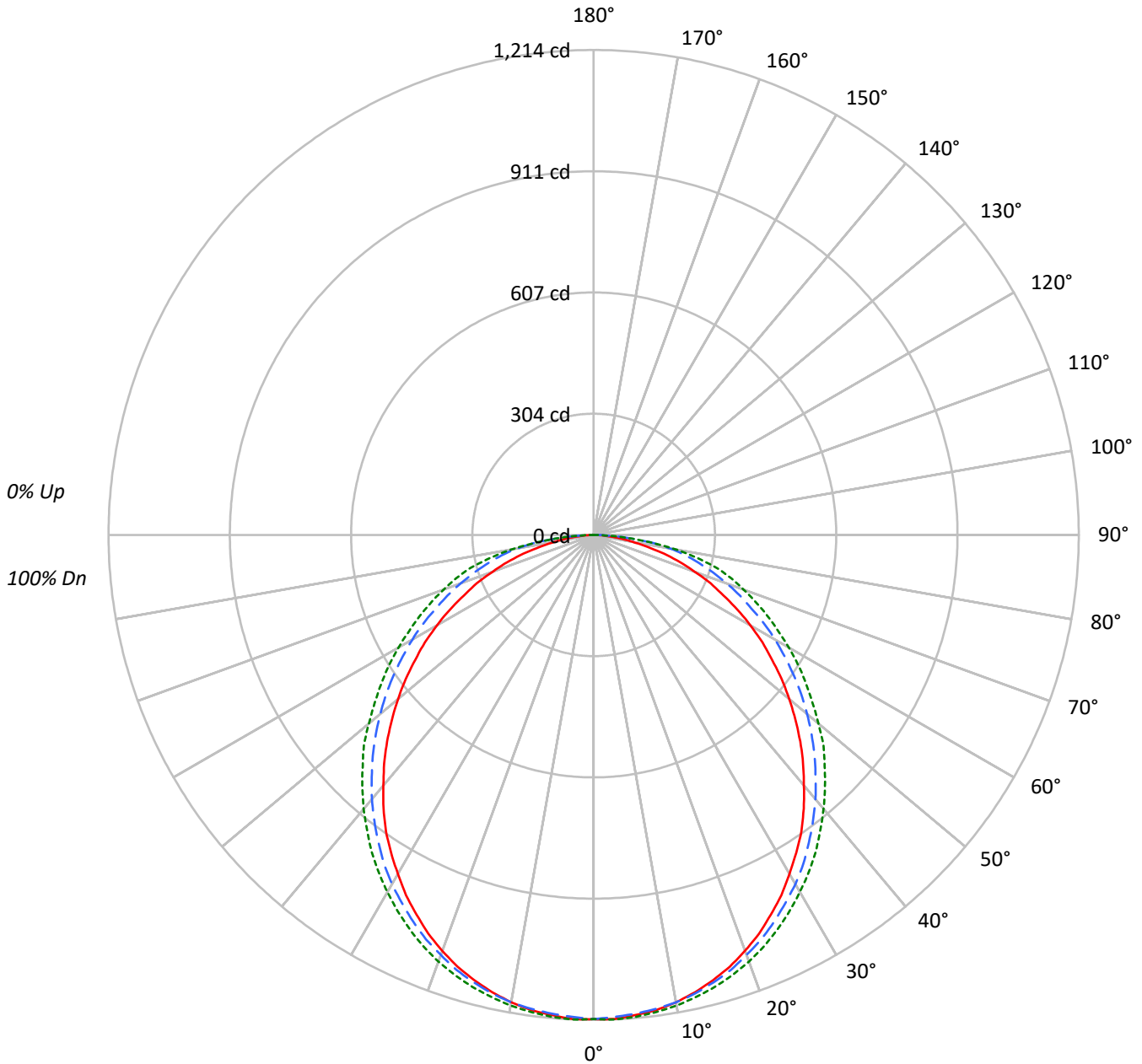
Lumens per Lamp: N/A  
Luminaire Lumens: 3450.0 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 26  
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									
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°	1711	1711	1711
5°	1709	1705	1716
10°	1702	1702	1715
15°	1686	1694	1712
20°	1664	1680	1707
25°	1633	1664	1696
30°	1597	1645	1682
35°	1561	1618	1669
40°	1508	1591	1649
45°	1459	1560	1632
50°	1403	1530	1612
55°	1340	1502	1596
60°	1278	1479	1593
65°	1197	1453	1603
70°	1108	1461	1646
75°	992	1488	1739
80°	801	1577	1701
85°	602	1383	1349



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.7	3.3
10°-20°	327.9	9.5
20°-30°	492.8	14.3
30°-40°	587.1	17.0
40°-50°	600.8	17.4
50°-60°	540.9	15.7
60°-70°	424.8	12.3
70°-80°	275.7	8.0
80°-90°	85.3	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°	935.4	27.1
0°-40°	1522.5	44.1
0°-60°	2664.2	77.2
0°-90°	3450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3450.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1206	1209	1203	1210	1211	115
15°	1154	1157	1159	1169	1172	325
25°	1049	1058	1068	1086	1089	483
35°	906	917	939	962	969	565
45°	731	748	781	811	818	564
55°	545	569	610	642	649	488
65°	358	386	435	471	480	357
75°	182	217	273	310	319	192
85°	37	69	85	83	83	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1212.1	1212.1	1212.1	1212.1	<i>1212.1</i>
2.5°	<i>1213.1</i>	<i>1213.1</i>	<i>1207.6</i>	<i>1213.1</i>	<i>1214.2</i>
5°	1206.5	1208.8	1203.2	1209.8	<i>1210.9</i>
7.5°	1199.9	1199.9	1196.6	1203.2	<i>1204.4</i>
10°	1187.9	1189.0	1187.9	1195.6	<i>1196.6</i>
12.5°	1172.6	1174.7	1175.9	1183.5	<i>1184.6</i>
15°	1154.0	1157.3	1159.4	1169.3	<i>1171.5</i>
17.5°	1133.1	1136.4	1141.8	1152.8	<i>1155.0</i>
20°	1107.9	1112.2	1118.8	1133.1	<i>1136.4</i>
22.5°	1080.6	1084.9	1095.9	1108.9	<i>1114.5</i>
25°	1048.7	1057.5	1068.4	1086.0	<i>1089.3</i>
27.5°	1016.9	1024.6	1038.8	1057.5	<i>1061.9</i>
30°	979.7	991.7	1009.3	1027.9	<i>1032.2</i>
32.5°	943.5	955.5	976.4	996.2	<i>1001.6</i>
35°	906.3	917.2	939.2	962.1	<i>968.7</i>
37.5°	863.5	877.8	901.9	924.9	<i>931.5</i>
40°	818.6	836.2	863.5	887.7	<i>895.3</i>
42.5°	775.8	794.4	821.9	848.2	<i>856.9</i>
45°	730.9	748.5	781.4	810.9	<i>817.5</i>
47.5°	684.9	704.7	739.6	769.2	<i>780.2</i>
50°	638.9	659.8	697.0	727.6	<i>734.2</i>
52.5°	592.8	614.7	654.2	687.1	<i>690.4</i>
55°	544.6	568.8	610.4	642.2	<i>648.8</i>
57.5°	500.8	521.7	566.6	599.4	<i>607.1</i>
60°	452.6	475.6	523.8	554.5	<i>564.3</i>
62.5°	406.5	430.7	481.1	511.8	<i>520.5</i>
65°	358.3	385.8	435.0	471.2	<i>479.9</i>
67.5°	316.7	343.0	395.6	430.7	<i>439.4</i>
70°	268.4	298.1	354.0	390.2	<i>398.9</i>
72.5°	226.8	257.5	313.4	348.4	<i>361.6</i>
75°	181.9	216.9	272.9	310.1	<i>318.9</i>
77.5°	138.1	178.6	235.5	264.1	<i>264.1</i>
80°	98.6	141.4	194.0	207.2	<i>209.3</i>
82.5°	64.7	106.3	143.5	142.5	<i>142.5</i>
85°	37.2	69.1	85.4	83.3	<i>83.3</i>
87.5°	14.3	28.5	30.6	30.6	<i>29.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)