

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: P732161

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732161  
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-B2750-W2D-2700K  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

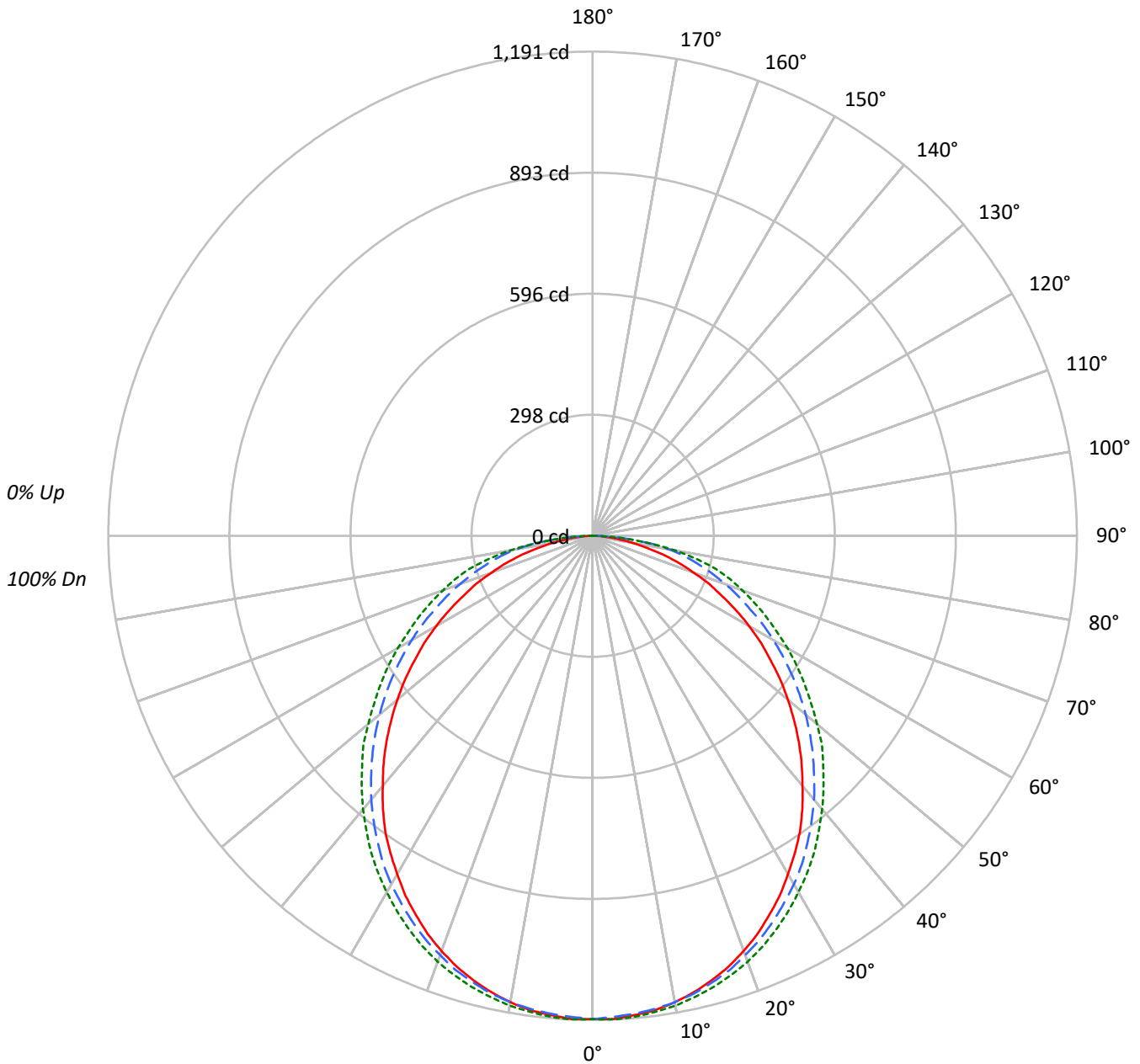
Lumens per Lamp: N/A  
Luminaire Lumens: 3384.0 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P732161

CATALOG NUMBER: 24CZ2-35HE-B2750-W2D-2700K

### 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°	1678	1678	1678
5°	1677	1672	1683
10°	1670	1670	1682
15°	1654	1662	1679
20°	1632	1648	1674
25°	1602	1632	1664
30°	1566	1613	1650
35°	1532	1587	1637
40°	1479	1560	1618
45°	1431	1530	1601
50°	1376	1501	1581
55°	1314	1473	1566
60°	1253	1450	1562
65°	1174	1425	1572
70°	1087	1433	1614
75°	973	1460	1706
80°	786	1546	1669
85°	591	1357	1323



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.5	3.3
10°-20°	321.6	9.5
20°-30°	483.4	14.3
30°-40°	575.8	17.0
40°-50°	589.3	17.4
50°-60°	530.6	15.7
60°-70°	416.7	12.3
70°-80°	270.4	8.0
80°-90°	83.6	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°	917.5	27.1
0°-40°	1493.4	44.1
0°-60°	2613.3	77.2
0°-90°	3384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3384.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1183	1186	1180	1187	1188	112
15°	1132	1135	1137	1147	1149	319
25°	1029	1037	1048	1065	1068	474
35°	889	900	921	944	950	555
45°	717	734	766	795	802	553
55°	534	558	599	630	636	479
65°	352	378	427	462	471	350
75°	178	213	268	304	313	189
85°	36	68	84	82	82	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1188.9	1188.9	1188.9	1188.9	<i>1188.9</i>
2.5°	<i>1189.9</i>	<i>1189.9</i>	<i>1184.5</i>	<i>1189.9</i>	<i>1190.9</i>
5°	1183.4	1185.6	1180.2	1186.7	<i>1187.7</i>
7.5°	1177.0	1177.0	1173.7	1180.2	<i>1181.4</i>
10°	1165.2	1166.2	1165.2	1172.7	<i>1173.7</i>
12.5°	1150.2	1152.2	1153.4	1160.9	<i>1161.9</i>
15°	1131.9	1135.1	1137.2	1146.9	<i>1149.1</i>
17.5°	1111.4	1114.7	1120.0	1130.7	<i>1132.9</i>
20°	1086.7	1091.0	1097.4	1111.4	<i>1114.7</i>
22.5°	1059.9	1064.2	1074.9	1087.7	<i>1093.2</i>
25°	1028.7	1037.2	1048.0	1065.2	<i>1068.4</i>
27.5°	997.5	1005.0	1019.0	1037.2	<i>1041.6</i>
30°	960.9	972.7	990.0	1008.2	<i>1012.5</i>
32.5°	925.5	937.2	957.7	977.1	<i>982.4</i>
35°	888.9	899.7	921.2	943.7	<i>950.2</i>
37.5°	847.0	861.0	884.7	907.2	<i>913.7</i>
40°	802.9	820.2	847.0	870.7	<i>878.2</i>
42.5°	761.0	779.2	806.2	832.0	<i>840.5</i>
45°	717.0	734.2	766.4	795.4	<i>801.9</i>
47.5°	671.8	691.2	725.5	754.5	<i>765.3</i>
50°	626.7	647.1	683.7	713.7	<i>720.2</i>
52.5°	581.5	603.0	641.7	674.0	<i>677.2</i>
55°	534.2	557.9	598.7	629.9	<i>636.4</i>
57.5°	491.2	511.7	555.7	588.0	<i>595.5</i>
60°	444.0	466.5	513.8	543.9	<i>553.5</i>
62.5°	398.8	422.5	471.9	502.0	<i>510.5</i>
65°	351.5	378.4	426.7	462.2	<i>470.8</i>
67.5°	310.7	336.5	388.0	422.5	<i>431.0</i>
70°	263.3	292.4	347.2	382.7	<i>391.2</i>
72.5°	222.5	252.5	307.5	341.8	<i>354.7</i>
75°	178.5	212.8	267.7	304.2	<i>312.8</i>
77.5°	135.5	175.2	231.0	259.0	<i>259.0</i>
80°	96.7	138.7	190.2	203.2	<i>205.3</i>
82.5°	63.5	104.3	140.8	139.7	<i>139.7</i>
85°	36.5	67.7	83.8	81.7	<i>81.7</i>
87.5°	14.0	28.0	30.0	30.0	<i>29.0</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)