

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: P880822

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

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P880822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-35VHE-B2750-W2D-2700K  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

**Summary**

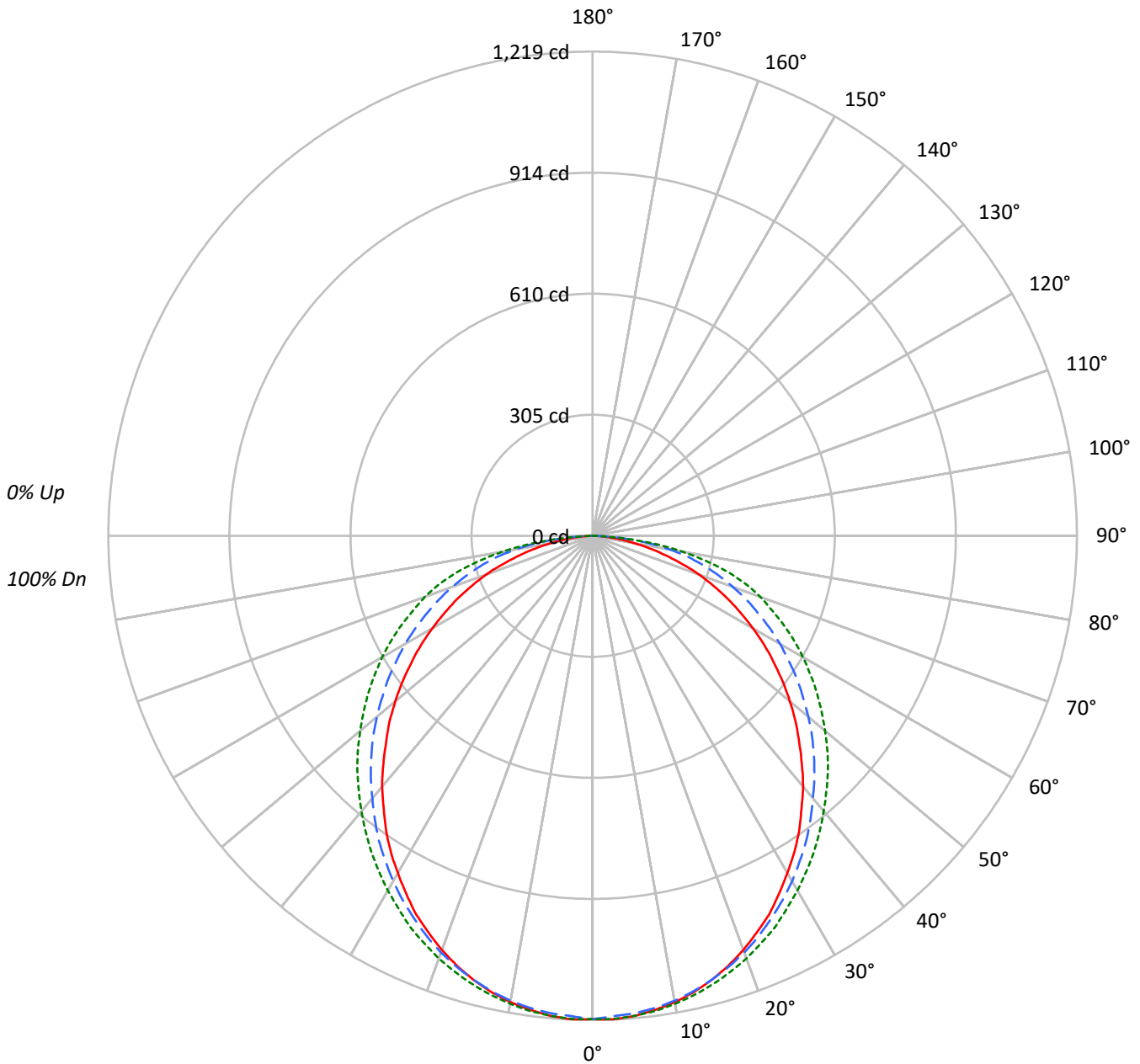
Lumens per Lamp: N/A  
Luminaire Lumens: 3522.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 27  
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				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	105	101	97	93	97	93	90	93	90	87	89	87	85	83			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23			

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

	0°	45°	90°
0°	1718	1718	1718
5°	1719	1710	1719
10°	1709	1703	1715
15°	1692	1691	1708
20°	1667	1677	1701
25°	1637	1656	1692
30°	1598	1637	1680
35°	1562	1616	1673
40°	1519	1589	1667
45°	1467	1573	1672
50°	1423	1555	1677
55°	1371	1544	1696
60°	1314	1537	1727
65°	1252	1532	1771
70°	1179	1547	1852
75°	1037	1579	1927
80°	866	1591	1859
85°	619	1363	1381



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.0	3.3
10°-20°	327.7	9.3
20°-30°	491.6	14.0
30°-40°	587.0	16.7
40°-50°	608.0	17.3
50°-60°	559.7	15.9
60°-70°	451.5	12.8
70°-80°	295.0	8.4
80°-90°	86.5	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°	934.4	26.5
0°-40°	1521.4	43.2
0°-60°	2689.0	76.3
0°-90°	3522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3522.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1213	1212	1207	1214	1213	115
15°	1158	1158	1157	1169	1169	326
25°	1052	1054	1063	1083	1087	483
35°	906	914	938	963	971	566
45°	735	753	788	823	838	568
55°	557	581	628	674	689	499
65°	375	401	459	511	530	371
75°	190	226	290	340	353	203
85°	38	66	84	89	85	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1217.0	1217.0	1217.0	1217.0	1217.0
2.5°	1218.7	1217.0	1210.8	1218.2	1217.6
5°	1213.1	1211.9	1206.8	1213.6	1213.1
7.5°	1204.0	1203.4	1199.4	1206.8	1206.8
10°	1192.6	1191.5	1188.6	1197.2	1196.6
12.5°	1176.7	1176.1	1174.4	1184.7	1184.1
15°	1157.9	1157.9	1157.3	1168.8	1168.8
17.5°	1135.1	1135.7	1138.0	1151.0	1151.6
20°	1109.6	1111.8	1116.4	1131.2	1132.3
22.5°	1080.5	1085.0	1091.3	1107.9	1109.6
25°	1051.5	1053.8	1063.4	1082.8	1086.7
27.5°	1016.2	1022.0	1034.5	1054.3	1058.3
30°	980.4	988.3	1004.2	1024.8	1031.1
32.5°	945.1	952.0	970.7	994.0	1001.4
35°	906.4	914.4	937.7	963.3	971.3
37.5°	863.7	876.2	900.7	930.3	938.8
40°	824.5	835.9	862.6	895.6	904.7
42.5°	779.5	793.7	826.2	859.7	871.1
45°	735.1	753.4	788.0	823.4	837.6
47.5°	693.6	708.4	749.4	789.2	801.7
50°	648.1	665.1	708.4	750.5	763.6
52.5°	603.2	623.6	667.4	711.8	726.0
55°	557.1	580.9	627.6	673.7	689.1
57.5°	512.6	536.6	584.9	633.9	649.8
60°	465.5	491.0	544.6	591.7	611.7
62.5°	419.9	445.5	501.8	553.1	571.8
65°	374.9	400.6	458.7	510.9	530.4
67.5°	328.3	356.2	418.2	468.9	487.6
70°	285.6	312.3	374.9	429.0	448.9
72.5°	236.7	268.6	332.3	385.7	404.6
75°	190.1	225.9	289.6	339.7	353.3
77.5°	146.8	182.7	246.3	283.9	292.4
80°	106.5	142.8	195.8	221.9	228.7
82.5°	68.9	106.5	141.7	159.3	161.6
85°	38.2	66.0	84.2	89.3	85.3
87.5°	13.6	25.0	24.4	19.9	15.9
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)