

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: P880837

Luminaire Tested: **24CZ2-35VHE-S-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: P880837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-35VHE-S-B2750-W2D-2700K  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

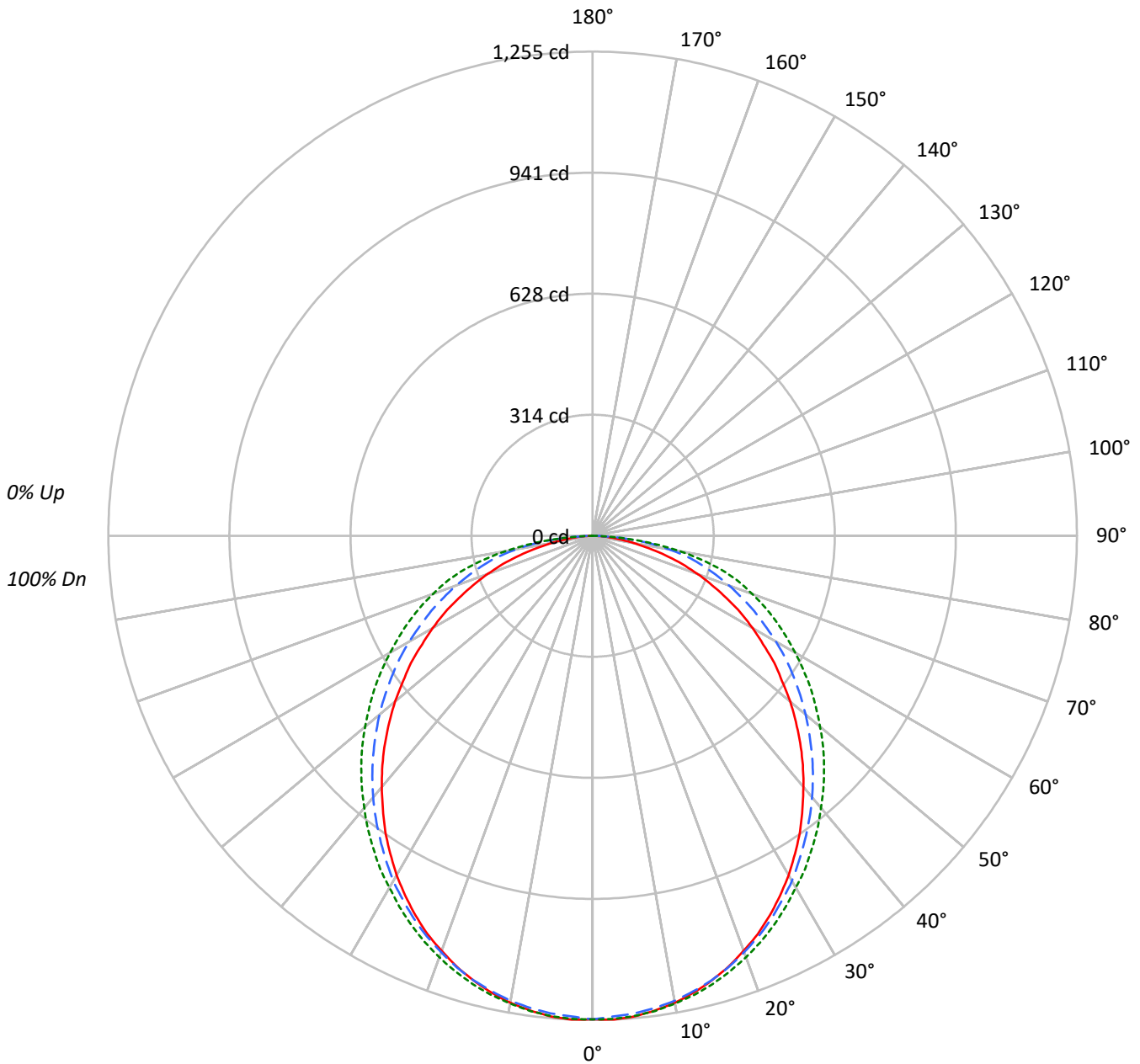
Lumens per Lamp: N/A  
Luminaire Lumens: 3591.0 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68								
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57								
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49								
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42								
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37								
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32								
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29								
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26								
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24								

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

	0°	45°	90°
0°	1769	1769	1769
5°	1772	1761	1770
10°	1762	1754	1764
15°	1743	1743	1757
20°	1719	1725	1746
25°	1691	1706	1732
30°	1655	1684	1716
35°	1614	1655	1706
40°	1566	1630	1696
45°	1519	1605	1693
50°	1467	1583	1689
55°	1415	1563	1698
60°	1350	1548	1710
65°	1278	1542	1751
70°	1193	1551	1813
75°	1062	1596	1910
80°	867	1630	1865
85°	612	1423	1453



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.5	3.3
10°-20°	337.5	9.4
20°-30°	505.9	14.1
30°-40°	602.5	16.8
40°-50°	621.3	17.3
50°-60°	566.9	15.8
60°-70°	453.3	12.6
70°-80°	296.1	8.2
80°-90°	88.9	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°	961.9	26.8
0°-40°	1564.4	43.6
0°-60°	2752.7	76.7
0°-90°	3591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3591.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1250	1248	1243	1250	1249	119
15°	1193	1194	1193	1203	1203	336
25°	1086	1088	1095	1111	1112	500
35°	937	943	960	984	990	585
45°	761	774	804	838	848	587
55°	575	592	635	677	690	512
65°	383	409	462	507	524	380
75°	195	227	293	340	350	207
85°	38	68	88	90	90	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1253.5	1253.5	1253.5	1253.5	1253.5
2.5°	1255.2	1253.5	1246.9	1254.6	1253.5
5°	1250.5	1248.1	1242.8	1250.5	1249.3
7.5°	1241.0	1239.8	1234.5	1243.3	1242.2
10°	1229.2	1228.0	1223.9	1232.8	1231.0
12.5°	1212.7	1212.2	1209.2	1219.8	1218.6
15°	1193.2	1193.8	1192.6	1202.7	1202.7
17.5°	1170.9	1170.3	1172.6	1185.0	1183.8
20°	1144.8	1145.4	1148.4	1162.6	1162.6
22.5°	1117.8	1117.2	1123.7	1137.8	1139.0
25°	1085.9	1087.6	1095.3	1111.3	1112.5
27.5°	1051.6	1054.7	1064.1	1082.4	1084.1
30°	1015.7	1019.3	1033.4	1050.5	1052.8
32.5°	976.2	983.9	996.8	1018.7	1024.6
35°	936.7	943.1	960.3	984.4	990.3
37.5°	893.0	903.6	923.1	949.6	957.4
40°	849.9	860.6	884.8	912.5	920.8
42.5°	806.3	817.6	845.2	876.5	885.3
45°	761.0	774.5	803.9	837.6	848.2
47.5°	714.4	730.2	762.1	798.6	810.5
50°	668.3	684.2	720.8	758.5	769.2
52.5°	618.8	638.8	677.8	718.5	729.1
55°	575.1	591.6	635.3	677.2	690.1
57.5°	523.8	546.2	592.8	635.3	647.6
60°	478.4	499.0	548.5	591.6	605.7
62.5°	432.4	453.6	503.1	552.1	565.1
65°	382.8	408.7	461.8	507.2	524.4
67.5°	335.6	362.7	417.1	465.3	483.1
70°	289.0	316.7	375.8	425.3	439.4
72.5°	243.0	272.0	333.3	381.7	398.1
75°	194.7	227.1	292.6	339.8	350.3
77.5°	149.2	185.2	251.3	283.2	290.8
80°	106.7	146.3	200.5	223.6	229.5
82.5°	70.1	108.5	149.8	162.2	160.4
85°	37.8	67.8	87.9	89.7	89.7
87.5°	14.7	27.2	27.8	21.2	20.0
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)