

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: P732188

Luminaire Tested: **24CZ2-40-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732188  
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: 24CZ2-40-B2750-W2D-3500K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

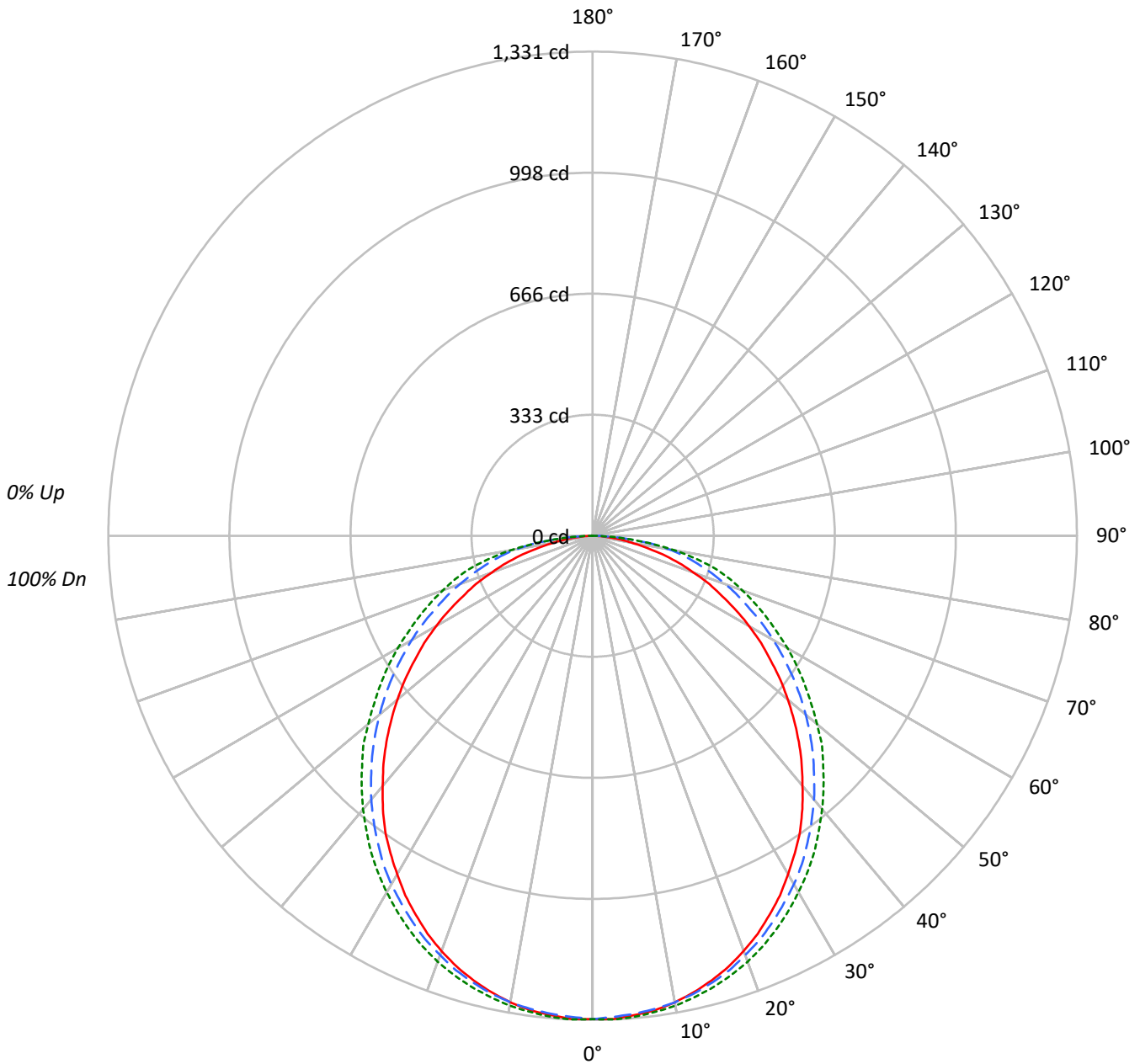
Lumens per Lamp: N/A  
Luminaire Lumens: 3782.0 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
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					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	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°	1875	1875	1875
5°	1874	1869	1881
10°	1866	1866	1880
15°	1848	1857	1877
20°	1824	1842	1871
25°	1790	1824	1860
30°	1750	1803	1844
35°	1712	1774	1830
40°	1653	1744	1808
45°	1599	1710	1789
50°	1538	1678	1767
55°	1469	1646	1750
60°	1401	1621	1746
65°	1312	1593	1757
70°	1214	1601	1805
75°	1088	1632	1906
80°	879	1728	1864
85°	661	1516	1478



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.8	3.3
10°-20°	359.4	9.5
20°-30°	540.3	14.3
30°-40°	643.5	17.0
40°-50°	658.6	17.4
50°-60°	593.0	15.7
60°-70°	465.7	12.3
70°-80°	302.2	8.0
80°-90°	93.5	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°	1025.4	27.1
0°-40°	1669.0	44.1
0°-60°	2920.6	77.2
0°-90°	3782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3782.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1323	1325	1319	1326	1327	126
15°	1265	1269	1271	1282	1284	357
25°	1150	1159	1171	1190	1194	530
35°	994	1006	1030	1055	1062	620
45°	801	820	857	889	896	618
55°	597	624	669	704	711	535
65°	393	423	477	517	526	391
75°	200	238	299	340	350	211
85°	41	76	94	91	91	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1328.7	1328.7	1328.7	1328.7	1328.7
2.5°	1329.9	1329.9	1323.8	1329.9	1331.0
5°	1322.6	1325.1	1319.0	1326.2	1327.4
7.5°	1315.4	1315.4	1311.8	1319.0	1320.3
10°	1302.2	1303.4	1302.2	1310.6	1311.8
12.5°	1285.4	1287.7	1289.0	1297.4	1298.6
15°	1265.0	1268.6	1271.0	1281.8	1284.3
17.5°	1242.1	1245.8	1251.7	1263.7	1266.2
20°	1214.5	1219.3	1226.5	1242.1	1245.8
22.5°	1184.5	1189.3	1201.3	1215.7	1221.7
25°	1149.7	1159.2	1171.2	1190.5	1194.1
27.5°	1114.8	1123.2	1138.8	1159.2	1164.1
30°	1074.0	1087.1	1106.4	1126.8	1131.6
32.5°	1034.3	1047.5	1070.3	1092.1	1098.0
35°	993.5	1005.5	1029.5	1054.7	1061.9
37.5°	946.6	962.2	988.7	1013.9	1021.1
40°	897.4	916.6	946.6	973.1	981.5
42.5°	850.5	870.9	901.0	929.8	939.4
45°	801.3	820.5	856.6	889.0	896.2
47.5°	750.8	772.5	810.8	843.2	855.3
50°	700.4	723.3	764.1	797.7	804.9
52.5°	649.9	673.9	717.2	753.2	756.8
55°	597.0	623.5	669.1	704.0	711.2
57.5°	549.0	571.9	621.1	657.1	665.5
60°	496.2	521.3	574.2	607.9	618.6
62.5°	445.7	472.1	527.4	561.0	570.6
65°	392.8	422.9	476.9	516.6	526.1
67.5°	347.2	376.0	433.6	472.1	481.7
70°	294.3	326.8	388.0	427.7	437.3
72.5°	248.7	282.2	343.6	382.0	396.4
75°	199.5	237.8	299.2	340.0	349.5
77.5°	151.4	195.8	258.2	289.5	289.5
80°	108.1	155.0	212.6	227.1	229.4
82.5°	70.9	116.5	157.3	156.2	156.2
85°	40.8	75.7	93.6	91.3	91.3
87.5°	15.6	31.3	33.6	33.6	32.4
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)