

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: P731929

Luminaire Tested: **14CZ2-44-S-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-44-S-B2750-W2D-4000K  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

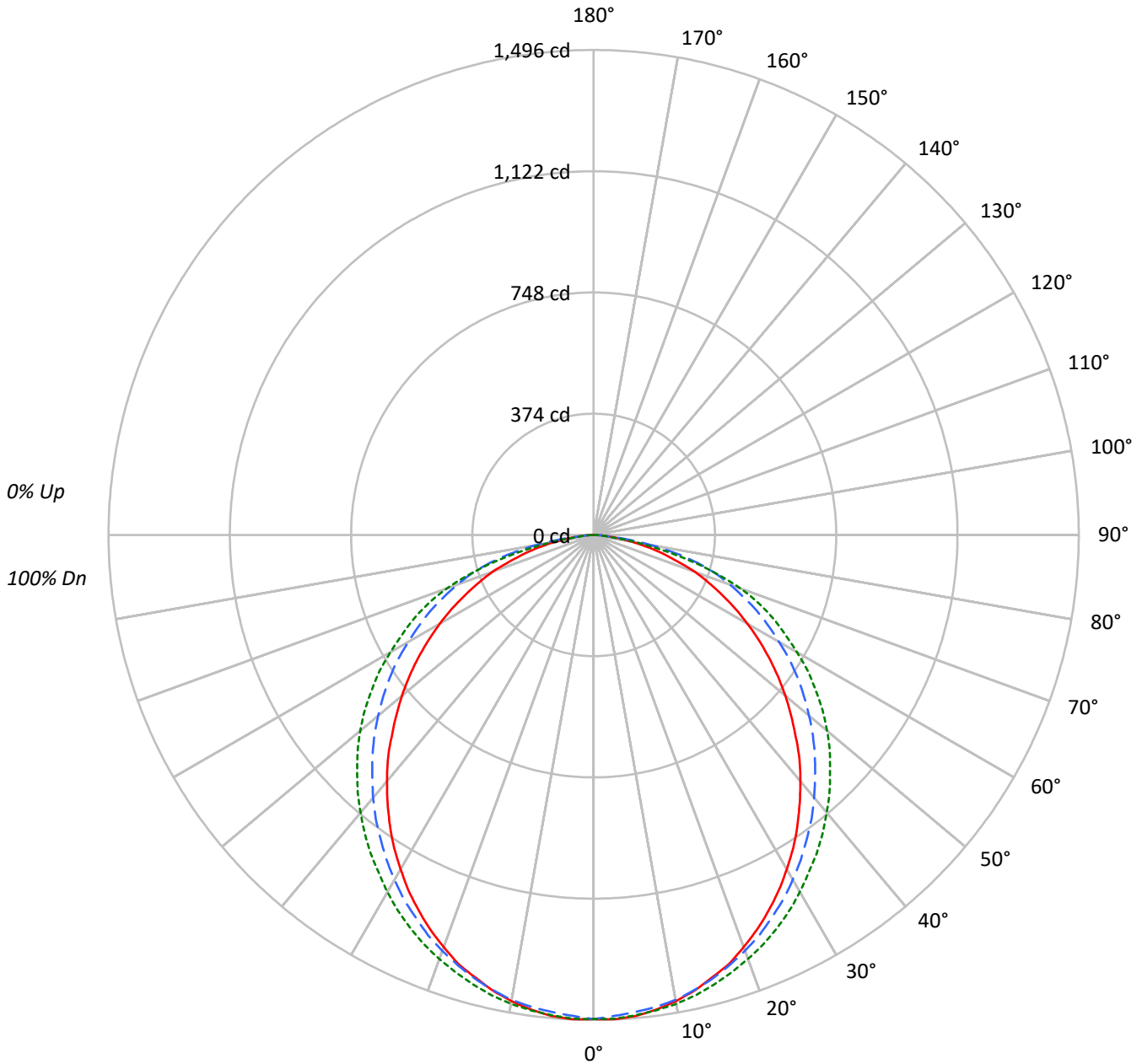
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4184.0 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
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

TEST NUMBER: P731929  
CATALOG NUMBER: 14CZ2-44-S-B2750-W2D-4000K

### 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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

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

	0°	45°	90°
0°	4216	4216	4216
5°	4221	4185	4214
10°	4186	4174	4210
15°	4129	4141	4195
20°	4063	4100	4181
25°	3980	4051	4167
30°	3881	4002	4145
35°	3774	3946	4132
40°	3654	3898	4120
45°	3519	3851	4116
50°	3389	3807	4127
55°	3246	3778	4114
60°	3093	3724	4087
65°	2910	3713	4088
70°	2740	3682	3971
75°	2375	3598	3393
80°	1921	2900	2259
85°	1276	1004	674



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.0	3.4
10°-20°	401.3	9.6
20°-30°	602.0	14.4
30°-40°	718.1	17.2
40°-50°	742.4	17.7
50°-60°	677.8	16.2
60°-70°	533.4	12.7
70°-80°	310.5	7.4
80°-90°	57.2	1.4
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°	1144.4	27.4
0°-40°	1862.6	44.5
0°-60°	3282.8	78.5
0°-90°	4184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4184.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1490	1485	1477	1490	1487	141
15°	1413	1415	1417	1435	1435	399
25°	1278	1284	1301	1332	1338	588
35°	1095	1110	1145	1189	1199	685
45°	882	911	965	1018	1031	681
55°	660	695	768	824	836	590
65°	436	481	556	600	612	433
75°	218	270	330	324	311	232
85°	39	56	31	25	21	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1493.6	1493.6	1493.6	1493.6	1493.6
2.5°	1495.7	1491.6	1485.2	1495.7	1493.6
5°	1489.6	1485.2	1477.1	1489.6	1487.3
7.5°	1477.1	1472.8	1468.7	1481.2	1479.1
10°	1460.3	1458.3	1456.3	1470.8	1468.7
12.5°	1439.7	1439.7	1437.7	1454.2	1454.2
15°	1412.8	1414.8	1416.9	1435.4	1435.4
17.5°	1387.9	1385.9	1392.0	1412.8	1414.8
20°	1352.6	1356.6	1365.0	1389.9	1392.0
22.5°	1317.2	1321.5	1336.0	1360.9	1367.0
25°	1277.8	1284.2	1300.7	1331.7	1338.1
27.5°	1236.4	1244.8	1267.4	1300.7	1306.8
30°	1190.6	1203.1	1228.0	1265.4	1271.7
32.5°	1145.1	1157.6	1188.6	1226.0	1234.4
35°	1095.3	1109.8	1145.1	1188.6	1199.0
37.5°	1043.5	1062.0	1103.7	1147.2	1159.6
40°	991.6	1012.4	1057.9	1103.7	1118.2
42.5°	939.7	960.6	1010.2	1062.0	1076.8
45°	881.5	910.8	964.7	1018.5	1031.0
47.5°	825.6	856.9	916.9	970.8	987.5
50°	771.7	802.7	867.0	923.2	939.7
52.5°	715.8	748.8	817.2	875.4	889.9
55°	659.6	695.0	767.7	823.6	836.0
57.5°	603.7	641.1	715.8	769.7	784.2
60°	547.8	587.2	659.6	713.5	723.9
62.5°	491.6	533.0	607.8	655.6	666.0
65°	435.7	481.2	555.9	599.6	612.1
67.5°	381.8	427.3	500.0	541.4	551.9
70°	332.0	373.4	446.1	477.1	481.2
72.5°	269.7	321.6	392.0	408.7	398.3
75°	217.8	269.7	329.9	323.6	311.1
77.5°	166.0	217.8	257.2	236.4	219.9
80°	118.2	170.1	178.4	147.2	139.0
82.5°	76.8	118.2	99.6	76.8	62.3
85°	39.4	55.9	31.0	24.9	20.8
87.5°	12.5	8.4	4.1	4.1	2.0
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)