

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: P731926

Luminaire Tested: **14CZ2-44-S-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731926  
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-2700K  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

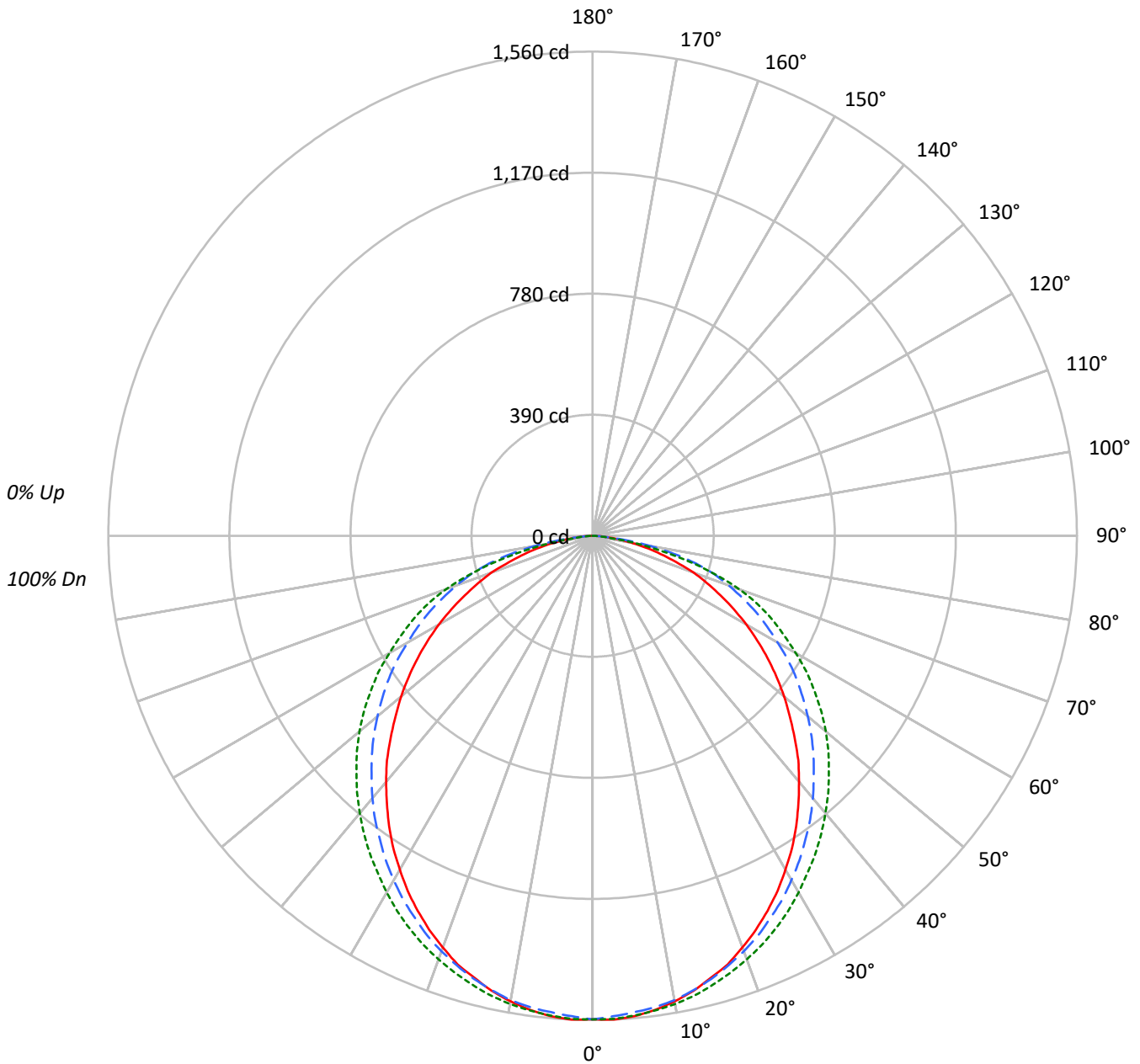
Lumens per Lamp: N/A  
Luminaire Lumens: 4365.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
Input Voltage (V): NR  
Input Current (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									
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°	4398	4398	4398
5°	4403	4366	4396
10°	4367	4355	4392
15°	4307	4320	4376
20°	4239	4278	4362
25°	4152	4226	4348
30°	4048	4176	4324
35°	3938	4117	4310
40°	3812	4067	4299
45°	3671	4017	4294
50°	3535	3972	4305
55°	3387	3941	4292
60°	3226	3885	4264
65°	3036	3874	4265
70°	2858	3841	4143
75°	2479	3754	3540
80°	2004	3027	2359
85°	1331	1049	703



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.1	3.4
10°-20°	418.7	9.6
20°-30°	628.1	14.4
30°-40°	749.2	17.2
40°-50°	774.6	17.7
50°-60°	707.2	16.2
60°-70°	556.5	12.7
70°-80°	324.0	7.4
80°-90°	59.7	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°	1193.9	27.4
0°-40°	1943.1	44.5
0°-60°	3424.9	78.5
0°-90°	4365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4365.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1554	1550	1541	1554	1552	147
15°	1474	1476	1478	1498	1498	416
25°	1333	1340	1357	1389	1396	614
35°	1143	1158	1195	1240	1251	714
45°	920	950	1006	1063	1076	710
55°	688	725	801	859	872	615
65°	454	502	580	626	639	451
75°	227	281	344	338	325	242
85°	41	58	32	26	22	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1558.2	1558.2	1558.2	1558.2	1558.2
2.5°	1560.4	1556.1	1549.5	1560.4	1558.2
5°	1554.0	1549.5	1541.0	1554.0	1551.6
7.5°	1541.0	1536.5	1532.3	1545.3	1543.1
10°	1523.5	1521.4	1519.3	1534.4	1532.3
12.5°	1502.0	1502.0	1499.9	1517.1	1517.1
15°	1473.9	1476.0	1478.2	1497.5	1497.5
17.5°	1447.9	1445.8	1452.2	1473.9	1476.0
20°	1411.1	1415.3	1424.1	1450.0	1452.2
22.5°	1374.2	1378.7	1393.8	1419.8	1426.2
25°	1333.1	1339.7	1357.0	1389.3	1396.0
27.5°	1289.9	1298.6	1322.2	1357.0	1363.3
30°	1242.1	1255.1	1281.1	1320.1	1326.7
32.5°	1194.7	1207.7	1240.0	1279.0	1287.8
35°	1142.7	1157.8	1194.7	1240.0	1250.9
37.5°	1088.6	1108.0	1151.4	1196.8	1209.8
40°	1034.5	1056.2	1103.7	1151.4	1166.6
42.5°	980.4	1002.1	1053.9	1108.0	1123.3
45°	919.7	950.2	1006.4	1062.6	1075.6
47.5°	861.3	893.9	956.5	1012.8	1030.3
50°	805.1	837.5	904.6	963.2	980.4
52.5°	746.8	781.2	852.6	913.3	928.4
55°	688.2	725.0	800.9	859.2	872.2
57.5°	629.8	668.8	746.8	803.0	818.1
60°	571.5	612.6	688.2	744.4	755.3
62.5°	512.9	556.1	634.1	683.9	694.8
65°	454.5	502.0	580.0	625.6	638.6
67.5°	398.3	445.8	521.6	564.9	575.7
70°	346.3	389.6	465.4	497.8	502.0
72.5°	281.4	335.5	408.9	426.4	415.5
75°	227.3	281.4	344.2	337.6	324.6
77.5°	173.2	227.3	268.4	246.6	229.4
80°	123.3	177.4	186.2	153.5	145.1
82.5°	80.1	123.3	104.0	80.1	65.0
85°	41.1	58.3	32.4	26.0	21.7
87.5°	13.0	8.8	4.2	4.2	2.1
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)