

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: P731927

Luminaire Tested: **14CZ2-44-S-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731927  
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-3000K  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

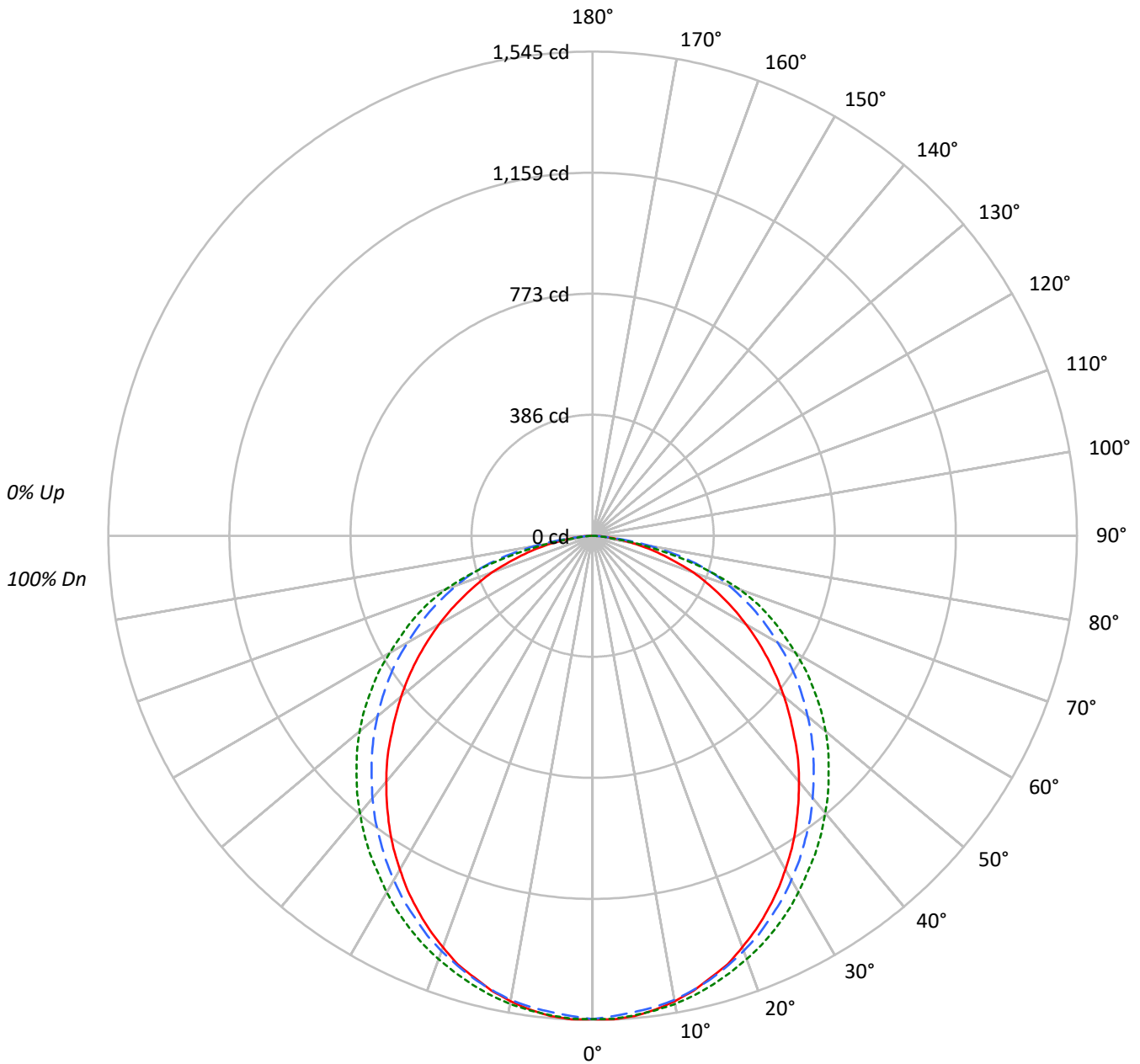
Lumens per Lamp: N/A  
Luminaire Lumens: 4321.0 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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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°	4354	4354	4354
5°	4359	4322	4352
10°	4323	4311	4347
15°	4264	4276	4332
20°	4196	4235	4318
25°	4110	4184	4304
30°	4008	4134	4281
35°	3898	4075	4267
40°	3774	4026	4255
45°	3634	3977	4251
50°	3500	3932	4262
55°	3352	3902	4249
60°	3194	3846	4220
65°	3006	3834	4222
70°	2829	3802	4101
75°	2454	3716	3504
80°	1985	2996	2334
85°	1318	1036	696



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.7	3.4
10°-20°	414.5	9.6
20°-30°	621.7	14.4
30°-40°	741.7	17.2
40°-50°	766.7	17.7
50°-60°	700.0	16.2
60°-70°	550.9	12.7
70°-80°	320.7	7.4
80°-90°	59.1	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°	1181.9	27.4
0°-40°	1923.5	44.5
0°-60°	3390.3	78.5
0°-90°	4321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4321.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1538	1534	1526	1538	1536	146
15°	1459	1461	1463	1482	1482	412
25°	1320	1326	1343	1375	1382	608
35°	1131	1146	1183	1228	1238	707
45°	910	941	996	1052	1065	703
55°	681	718	793	850	863	609
65°	450	497	574	619	632	447
75°	225	278	341	334	321	239
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°	1542.5	1542.5	1542.5	1542.5	1542.5
2.5°	1544.6	1540.4	1533.9	1544.6	1542.5
5°	1538.3	1533.9	1525.5	1538.3	1536.0
7.5°	1525.5	1521.0	1516.8	1529.7	1527.6
10°	1508.1	1506.0	1503.9	1518.9	1516.8
12.5°	1486.9	1486.9	1484.8	1501.8	1501.8
15°	1459.1	1461.2	1463.3	1482.4	1482.4
17.5°	1433.3	1431.2	1437.5	1459.1	1461.2
20°	1396.8	1401.0	1409.7	1435.4	1437.5
22.5°	1360.4	1364.8	1379.8	1405.5	1411.8
25°	1319.7	1326.2	1343.3	1375.3	1381.9
27.5°	1276.9	1285.5	1308.9	1343.3	1349.6
30°	1229.6	1242.5	1268.2	1306.8	1313.4
32.5°	1182.6	1195.5	1227.5	1266.1	1274.8
35°	1131.2	1146.1	1182.6	1227.5	1238.3
37.5°	1077.6	1096.8	1139.8	1184.7	1197.6
40°	1024.1	1045.6	1092.6	1139.8	1154.8
42.5°	970.5	992.0	1043.2	1096.8	1112.0
45°	910.4	940.6	996.2	1051.9	1064.8
47.5°	852.6	884.9	946.9	1002.5	1019.9
50°	797.0	829.0	895.4	953.5	970.5
52.5°	739.2	773.4	844.0	904.1	919.1
55°	681.2	717.7	792.8	850.5	863.4
57.5°	623.5	662.1	739.2	794.9	809.9
60°	565.7	606.4	681.2	736.9	747.6
62.5°	507.7	550.5	627.7	677.0	687.8
65°	450.0	496.9	574.1	619.3	632.1
67.5°	394.3	441.3	516.4	559.2	569.9
70°	342.8	385.6	460.7	492.7	496.9
72.5°	278.5	332.1	404.8	422.1	411.4
75°	225.0	278.5	340.7	334.2	321.3
77.5°	171.4	225.0	265.7	244.1	227.1
80°	122.1	175.6	184.3	152.0	143.6
82.5°	79.3	122.1	102.9	79.3	64.3
85°	40.7	57.8	32.0	25.7	21.5
87.5°	12.9	8.7	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)