

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: P732078

Luminaire Tested: **22CZ2-44HE-S-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272009)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-44HE-S-B2750-W2D-3500K  
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

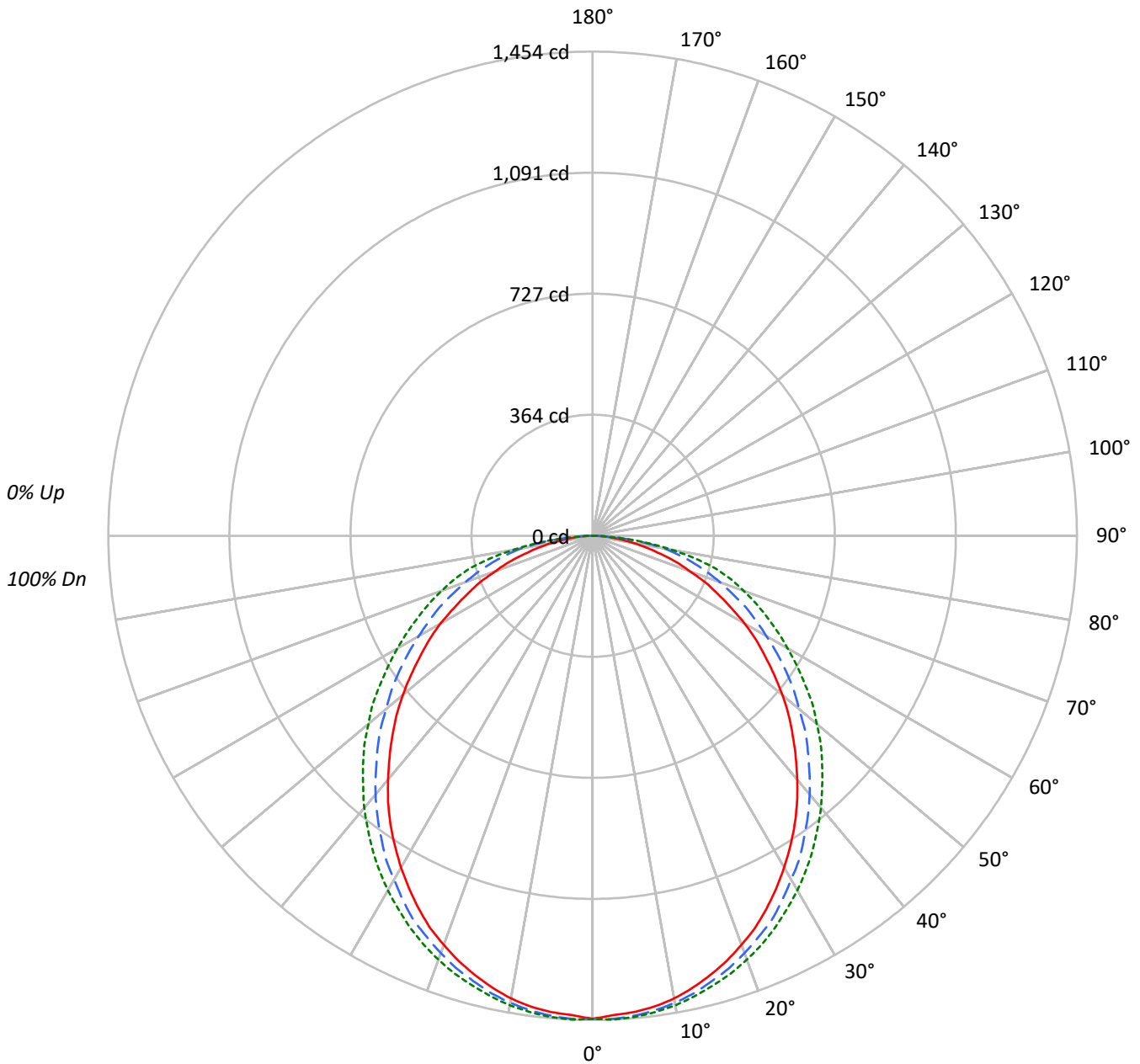
Lumens per Lamp: N/A  
Luminaire Lumens: 4048.0 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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					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	94	97	94	91	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69								
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58								
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49								
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43								
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37								
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33								
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	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	51	39	31	26	38	31	26	37	31	26	36	30	26	24								

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

	0°	45°	90°
0°	4116	4116	4116
5°	4089	4121	4132
10°	4065	4103	4125
15°	4012	4067	4106
20°	3946	4026	4090
25°	3867	3986	4063
30°	3769	3905	4028
35°	3664	3834	3991
40°	3540	3757	3952
45°	3411	3668	3911
50°	3284	3569	3877
55°	3130	3504	3850
60°	2990	3419	3837
65°	2790	3399	3880
70°	2570	3369	3996
75°	2318	3416	4204
80°	2005	3518	3950
85°	1660	2950	2950



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.2	3.4
10°-20°	390.4	9.6
20°-30°	584.1	14.4
30°-40°	691.7	17.1
40°-50°	704.9	17.4
50°-60°	631.8	15.6
60°-70°	494.7	12.2
70°-80°	319.0	7.9
80°-90°	94.2	2.3
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°	1111.6	27.5
0°-40°	1803.4	44.5
0°-60°	3140.2	77.6
0°-90°	4048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4048.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1436	1439	1447	1449	1450	136
15°	1366	1373	1384	1396	1398	385
25°	1235	1247	1273	1290	1298	569
35°	1058	1071	1107	1141	1152	661
45°	850	869	914	961	975	656
55°	633	654	708	758	778	567
65°	416	440	506	555	578	413
75°	211	244	312	365	384	227
85°	51	70	91	91	91	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1450.5	1450.5	1450.5	1450.5	1450.5
2.5°	1441.0	1444.9	1452.4	1454.4	1454.4
5°	1435.5	1439.2	1446.7	1448.7	1450.5
7.5°	1426.0	1427.8	1437.3	1441.0	1443.0
10°	1410.9	1414.6	1424.1	1429.8	1431.7
12.5°	1390.0	1395.7	1407.1	1414.6	1416.6
15°	1365.6	1373.2	1384.3	1395.7	1397.7
17.5°	1339.0	1346.8	1361.8	1375.0	1378.8
20°	1306.9	1316.5	1333.3	1348.6	1354.3
22.5°	1274.8	1282.3	1303.3	1322.2	1327.9
25°	1235.2	1246.6	1273.0	1290.1	1297.6
27.5°	1193.6	1206.8	1233.4	1255.9	1263.4
30°	1150.3	1163.5	1191.8	1220.2	1229.5
32.5°	1104.8	1120.1	1154.0	1182.4	1191.8
35°	1057.7	1070.9	1106.9	1140.8	1152.1
37.5°	1008.5	1019.9	1061.6	1097.3	1108.7
40°	955.7	970.7	1014.2	1055.9	1067.0
42.5°	902.7	919.8	963.2	1008.5	1019.9
45°	849.9	868.8	914.1	961.4	974.6
47.5°	798.9	813.9	865.1	910.4	929.3
50°	744.0	759.3	808.5	859.4	878.3
52.5°	687.4	708.3	761.1	810.3	832.8
55°	632.7	653.5	708.3	757.5	778.2
57.5°	581.8	598.6	655.3	706.3	727.2
60°	526.9	542.2	602.5	657.3	676.2
62.5°	468.4	490.9	553.3	604.3	627.1
65°	415.6	440.0	506.2	555.4	577.9
67.5°	366.4	389.0	453.4	506.2	530.8
70°	309.8	340.0	406.1	458.9	481.6
72.5°	264.5	290.9	358.9	411.7	436.3
75°	211.4	243.5	311.6	364.6	383.5
77.5°	168.2	200.3	264.5	305.9	315.5
80°	122.7	154.8	215.3	236.0	241.7
82.5°	83.1	113.3	154.8	160.5	162.5
85°	51.0	69.9	90.6	90.6	90.6
87.5°	24.6	28.2	32.1	30.3	30.3
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)