

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: P842973

Luminaire Tested: **22CZ2-44HE-S-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842973  
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-UNV-B50  
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

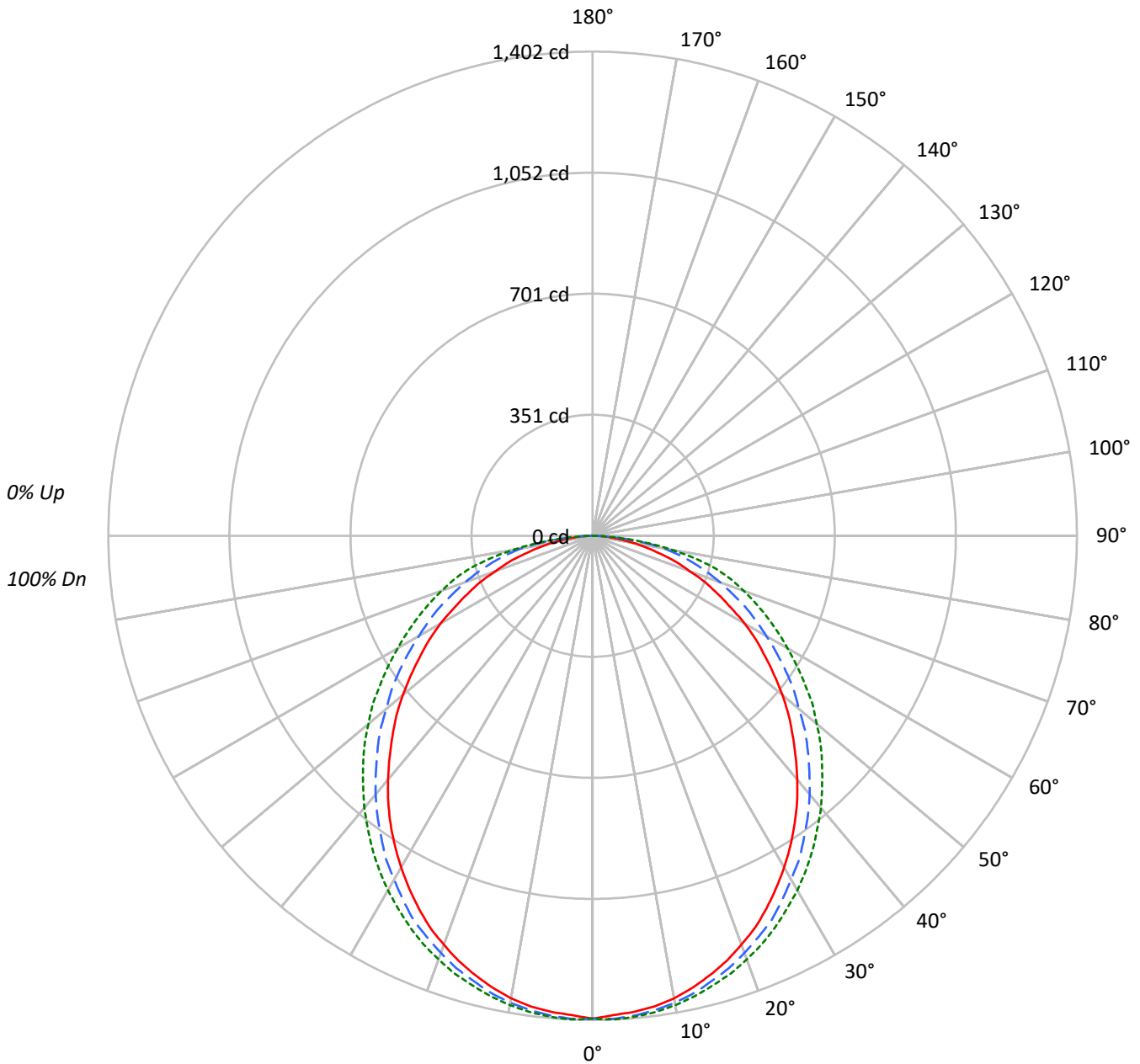
Lumens per Lamp: N/A  
Luminaire Lumens: 3902.0 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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°	3967	3967	3967
5°	3941	3972	3983
10°	3919	3955	3976
15°	3867	3920	3958
20°	3804	3881	3942
25°	3728	3842	3916
30°	3633	3764	3883
35°	3532	3696	3847
40°	3413	3621	3810
45°	3287	3536	3770
50°	3166	3440	3738
55°	3017	3378	3711
60°	2882	3296	3699
65°	2690	3276	3740
70°	2477	3247	3851
75°	2234	3293	4053
80°	1933	3392	3807
85°	1599	2842	2842



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.2	3.4
10°-20°	376.3	9.6
20°-30°	563.0	14.4
30°-40°	666.8	17.1
40°-50°	679.5	17.4
50°-60°	609.0	15.6
60°-70°	476.8	12.2
70°-80°	307.5	7.9
80°-90°	90.8	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°	1071.5	27.5
0°-40°	1738.3	44.5
0°-60°	3026.9	77.6
0°-90°	3902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3902.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1398	1398	1398	1398	1398	
5°	1384	1387	1394	1396	1398	131
15°	1316	1324	1334	1345	1347	371
25°	1191	1202	1227	1244	1251	548
35°	1020	1032	1067	1100	1111	637
45°	819	837	881	927	940	633
55°	610	630	683	730	750	547
65°	401	424	488	535	557	398
75°	204	235	300	352	370	219
85°	49	67	87	87	87	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1398.2	1398.2	1398.2	1398.2	1398.2
2.5°	1389.0	1392.7	1400.0	1402.0	1402.0
5°	1383.7	1387.3	1394.5	1396.5	1398.2
7.5°	1374.5	1376.3	1385.5	1389.0	1391.0
10°	1360.0	1363.6	1372.8	1378.3	1380.0
12.5°	1339.9	1345.3	1356.3	1363.6	1365.5
15°	1316.4	1323.6	1334.4	1345.3	1347.3
17.5°	1290.7	1298.2	1312.7	1325.4	1329.1
20°	1259.8	1269.0	1285.2	1299.9	1305.4
22.5°	1228.8	1236.1	1256.3	1274.5	1280.0
25°	1190.7	1201.6	1227.1	1243.5	1250.8
27.5°	1150.5	1163.2	1188.9	1210.6	1217.9
30°	1108.8	1121.6	1148.8	1176.2	1185.2
32.5°	1065.0	1079.7	1112.3	1139.8	1148.8
35°	1019.5	1032.3	1066.9	1099.6	1110.6
37.5°	972.2	983.1	1023.3	1057.7	1068.7
40°	921.3	935.7	977.6	1017.8	1028.5
42.5°	870.1	886.6	928.5	972.2	983.1
45°	819.2	837.4	881.1	926.7	939.5
47.5°	770.1	784.6	833.9	877.6	895.8
50°	717.2	731.9	779.3	828.4	846.7
52.5°	662.6	682.8	733.7	781.1	802.8
55°	609.9	629.9	682.8	730.2	750.1
57.5°	560.8	577.0	631.6	680.8	701.0
60°	507.9	522.6	580.7	633.6	651.8
62.5°	451.5	473.2	533.4	582.5	604.4
65°	400.6	424.1	487.9	535.3	557.1
67.5°	353.2	375.0	437.0	487.9	511.6
70°	298.6	327.8	391.4	442.3	464.2
72.5°	254.9	280.4	346.0	396.9	420.6
75°	203.8	234.8	300.4	351.5	369.7
77.5°	162.1	193.1	254.9	294.9	304.1
80°	118.3	149.2	207.6	227.5	233.0
82.5°	80.1	109.3	149.2	154.7	156.7
85°	49.1	67.4	87.3	87.3	87.3
87.5°	23.7	27.2	30.9	29.2	29.2
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)