

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: P842972

Luminaire Tested: **22CZ2-44HE-S-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842972  
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-B40  
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

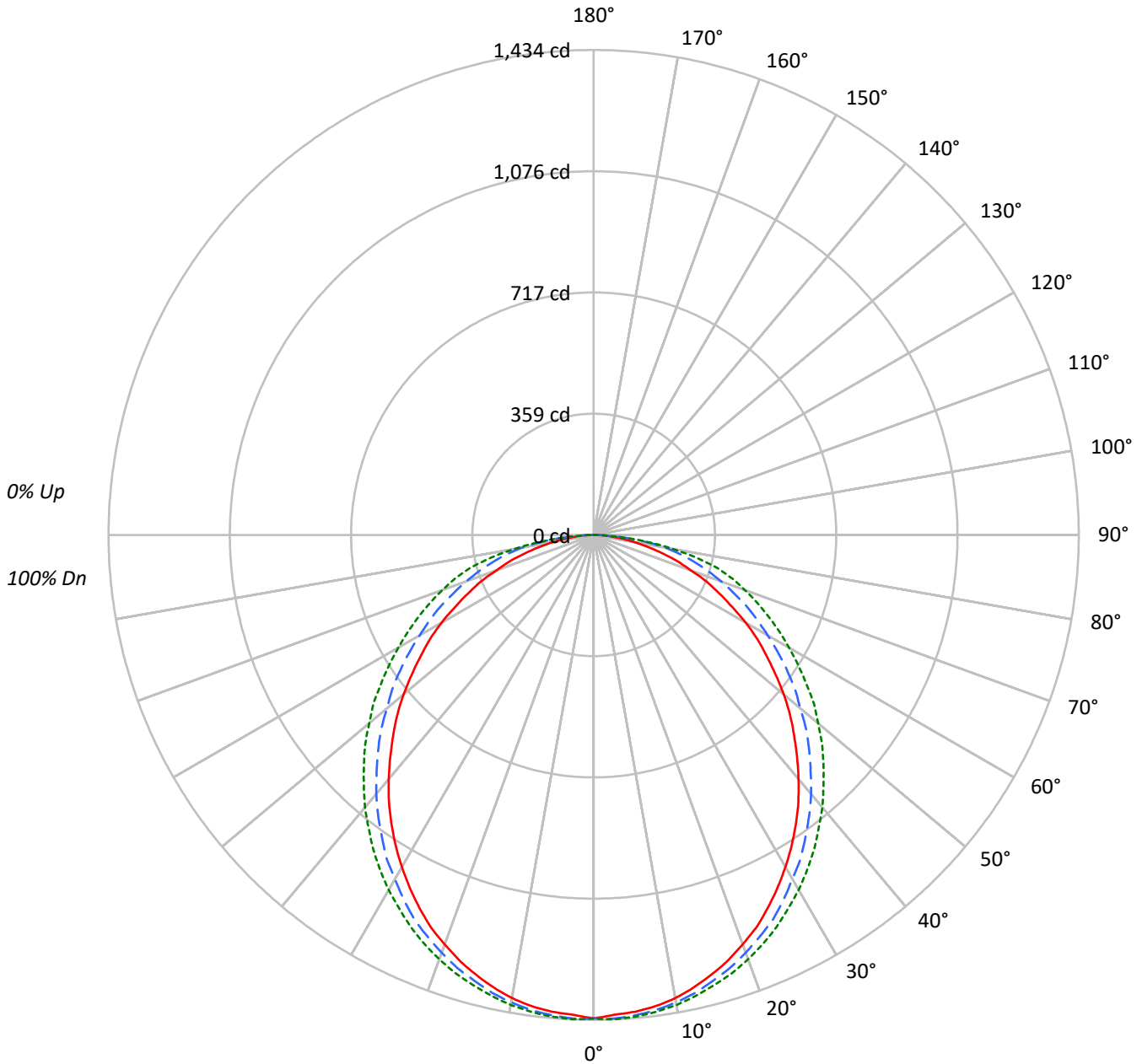
Lumens per Lamp: N/A  
Luminaire Lumens: 3990.0 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
Input Voltage (V): NR  
Input Current (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

TEST NUMBER: P842972

CATALOG NUMBER: 22CZ2-44HE-S-UNV-B40

### Luminous Intensity Polar Plot





TEST NUMBER: P842972

CATALOG NUMBER: 22CZ2-44HE-S-UNV-B40

**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	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°	4057	4057	4057
5°	4030	4061	4073
10°	4007	4044	4066
15°	3954	4008	4047
20°	3890	3968	4031
25°	3812	3929	4004
30°	3715	3849	3971
35°	3611	3779	3934
40°	3489	3703	3896
45°	3362	3616	3855
50°	3238	3518	3822
55°	3086	3454	3794
60°	2948	3370	3782
65°	2751	3350	3824
70°	2533	3320	3938
75°	2285	3367	4144
80°	1976	3467	3894
85°	1638	2907	2907



TEST NUMBER: P842972

CATALOG NUMBER: 22CZ2-44HE-S-UNV-B40

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.2	3.4
10°-20°	384.8	9.6
20°-30°	575.7	14.4
30°-40°	681.8	17.1
40°-50°	694.8	17.4
50°-60°	622.8	15.6
60°-70°	487.6	12.2
70°-80°	314.4	7.9
80°-90°	92.9	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°	1095.7	27.5
0°-40°	1777.5	44.5
0°-60°	3095.2	77.6
0°-90°	3990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3990.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1415	1418	1426	1428	1430	134
15°	1346	1354	1364	1376	1378	379
25°	1218	1229	1255	1272	1279	560
35°	1042	1056	1091	1124	1136	652
45°	838	856	901	948	961	647
55°	624	644	698	747	767	559
65°	410	434	499	547	570	407
75°	208	240	307	359	378	224
85°	50	69	89	89	89	59
90°	0	0	0	0	0	



TEST NUMBER: P842972

CATALOG NUMBER: 22CZ2-44HE-S-UNV-B40

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1429.8	1429.8	1429.8	1429.8	1429.8
2.5°	1420.3	1424.1	1431.6	1433.6	1433.6
5°	1415.0	1418.5	1425.9	1428.0	1429.8
7.5°	1405.5	1407.3	1416.7	1420.3	1422.4
10°	1390.7	1394.3	1403.7	1409.3	1411.1
12.5°	1370.1	1375.7	1386.9	1394.3	1396.3
15°	1346.1	1353.5	1364.5	1375.7	1377.7
17.5°	1319.8	1327.5	1342.3	1355.3	1359.1
20°	1288.2	1297.6	1314.2	1329.3	1334.9
22.5°	1256.6	1264.0	1284.6	1303.2	1308.8
25°	1217.5	1228.7	1254.8	1271.6	1279.0
27.5°	1176.5	1189.5	1215.7	1237.9	1245.3
30°	1133.8	1146.9	1174.7	1202.7	1211.9
32.5°	1089.0	1104.0	1137.4	1165.5	1174.7
35°	1042.5	1055.5	1091.0	1124.4	1135.6
37.5°	994.1	1005.3	1046.4	1081.6	1092.8
40°	942.0	956.8	999.7	1040.7	1051.7
42.5°	889.8	906.6	949.4	994.1	1005.3
45°	837.7	856.3	901.0	947.6	960.7
47.5°	787.5	802.3	852.7	897.4	916.0
50°	733.4	748.4	796.9	847.1	865.8
52.5°	677.5	698.2	750.2	798.7	820.9
55°	623.7	644.1	698.2	746.6	767.0
57.5°	573.4	590.0	645.9	696.1	716.8
60°	519.4	534.4	593.8	647.9	666.5
62.5°	461.7	483.9	545.4	595.6	618.1
65°	409.7	433.7	498.9	547.4	569.6
67.5°	361.2	383.4	446.9	498.9	523.2
70°	305.3	335.2	400.2	452.3	474.7
72.5°	260.7	286.7	353.8	405.8	430.1
75°	208.4	240.1	307.1	359.4	378.0
77.5°	165.8	197.4	260.7	301.5	310.9
80°	120.9	152.6	212.2	232.6	238.3
82.5°	81.9	111.7	152.6	158.2	160.2
85°	50.3	68.9	89.3	89.3	89.3
87.5°	24.2	27.8	31.6	29.8	29.8
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)