

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: P881134

Luminaire Tested: **22CZ2-44VHE-UNV-B35**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P881134  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-44VHE-UNV-B35  
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

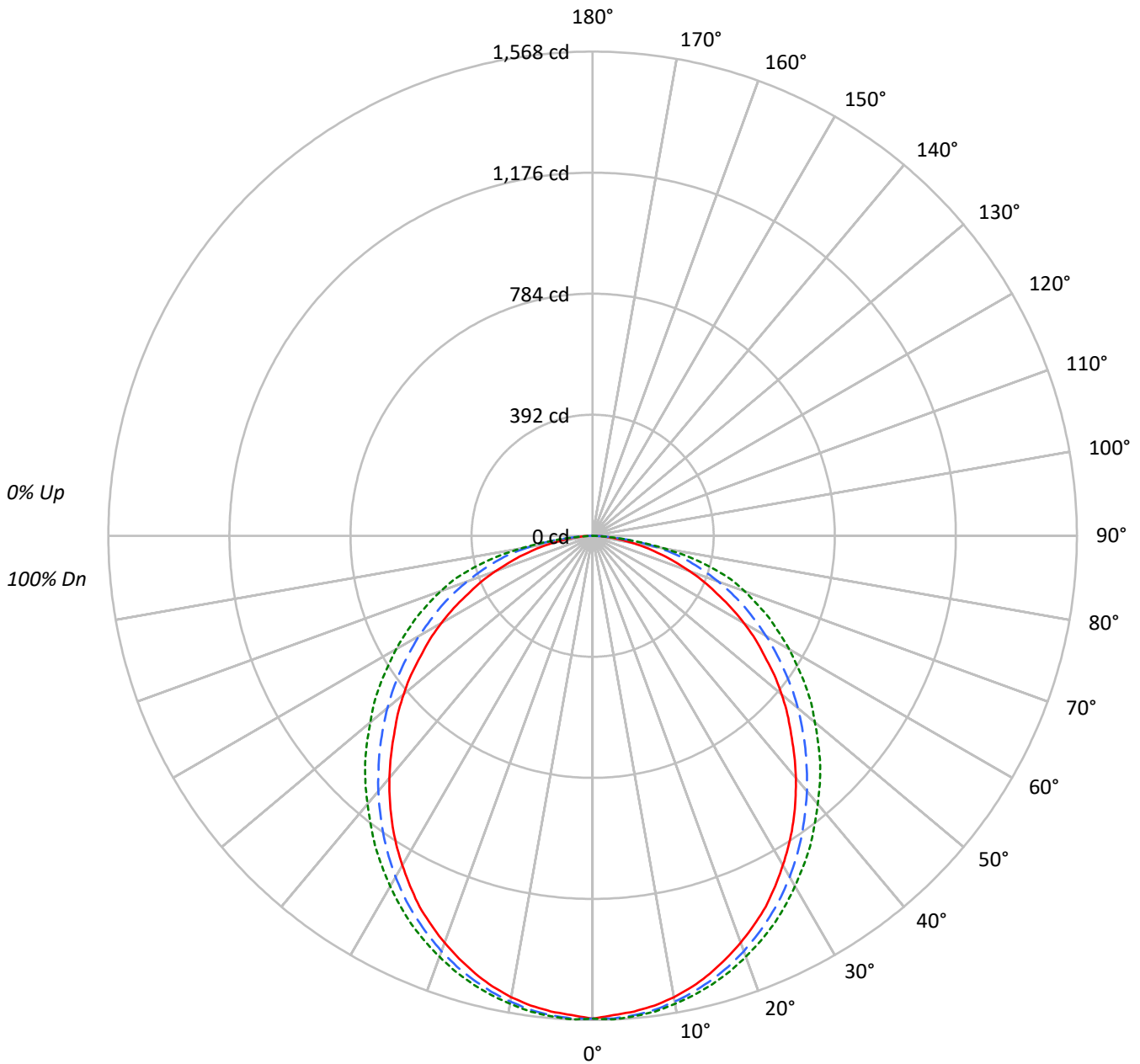
Lumens per Lamp: N/A  
Luminaire Lumens: 4312.0 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83																			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	73	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	36	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	29	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°	4438	4438	4438
5°	4405	4439	4449
10°	4372	4414	4435
15°	4313	4374	4414
20°	4235	4323	4381
25°	4151	4257	4346
30°	4037	4180	4294
35°	3923	4091	4252
40°	3791	4000	4199
45°	3646	3909	4179
50°	3528	3830	4147
55°	3363	3746	4156
60°	3212	3681	4169
65°	2985	3634	4235
70°	2760	3583	4339
75°	2469	3567	4367
80°	2069	3381	3811
85°	1605	2318	2165



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.7	3.4
10°-20°	419.4	9.7
20°-30°	625.3	14.5
30°-40°	738.2	17.1
40°-50°	752.4	17.4
50°-60°	678.5	15.7
60°-70°	533.3	12.4
70°-80°	333.9	7.7
80°-90°	83.3	1.9
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°	1192.5	27.7
0°-40°	1930.7	44.8
0°-60°	3361.5	78.0
0°-90°	4312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4312.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1546	1550	1558	1562	1562	147
15°	1468	1474	1489	1500	1503	414
25°	1326	1336	1360	1380	1388	610
35°	1133	1147	1181	1214	1228	708
45°	908	928	974	1022	1042	703
55°	680	701	757	816	840	610
65°	445	472	541	601	631	443
75°	225	259	325	384	398	239
85°	49	63	71	71	66	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1563.9	1563.9	1563.9	1563.9	1563.9
2.5°	1553.7	1557.5	1564.7	1567.5	1567.5
5°	1546.4	1550.0	1558.3	1561.9	1561.9
7.5°	1534.5	1538.1	1548.3	1552.8	1553.7
10°	1517.3	1521.8	1531.8	1539.2	1539.2
12.5°	1495.5	1499.9	1512.7	1521.8	1522.6
15°	1468.1	1474.4	1489.1	1499.9	1502.7
17.5°	1436.2	1446.2	1462.5	1476.3	1479.1
20°	1402.4	1412.4	1431.5	1447.0	1450.8
22.5°	1365.0	1374.2	1396.9	1416.2	1420.7
25°	1325.9	1335.9	1359.7	1380.5	1388.0
27.5°	1279.4	1291.3	1319.6	1343.1	1350.6
30°	1232.0	1246.7	1275.8	1302.1	1310.4
32.5°	1183.8	1197.4	1230.1	1258.4	1269.4
35°	1132.6	1147.3	1181.1	1213.8	1227.6
37.5°	1078.9	1093.5	1130.1	1167.3	1180.0
40°	1023.5	1040.7	1080.0	1119.9	1133.7
42.5°	966.9	985.0	1026.0	1070.8	1088.9
45°	908.5	928.5	974.2	1021.5	1041.5
47.5°	855.6	872.0	919.6	971.4	990.5
50°	799.1	814.6	867.5	919.6	939.5
52.5°	741.8	756.4	812.9	867.5	892.2
55°	679.8	700.8	757.3	815.5	840.1
57.5°	625.2	644.3	702.7	761.7	785.5
60°	565.9	585.9	648.7	709.1	734.6
62.5°	506.6	528.5	592.2	657.0	680.8
65°	444.6	472.0	541.3	601.4	630.7
67.5°	391.9	418.3	486.7	549.5	575.0
70°	332.7	363.7	431.9	495.8	523.0
72.5°	277.0	308.0	378.1	442.1	469.2
75°	225.2	258.7	325.4	383.6	398.3
77.5°	175.0	206.9	273.4	307.2	322.7
80°	126.6	157.6	206.9	229.6	233.2
82.5°	85.6	112.2	140.4	146.8	143.2
85°	49.3	62.9	71.2	71.2	66.5
87.5°	20.0	20.0	17.4	10.8	6.4
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)