

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: P843082

Luminaire Tested: **24CZ2-45-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-45-UNV-B35  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

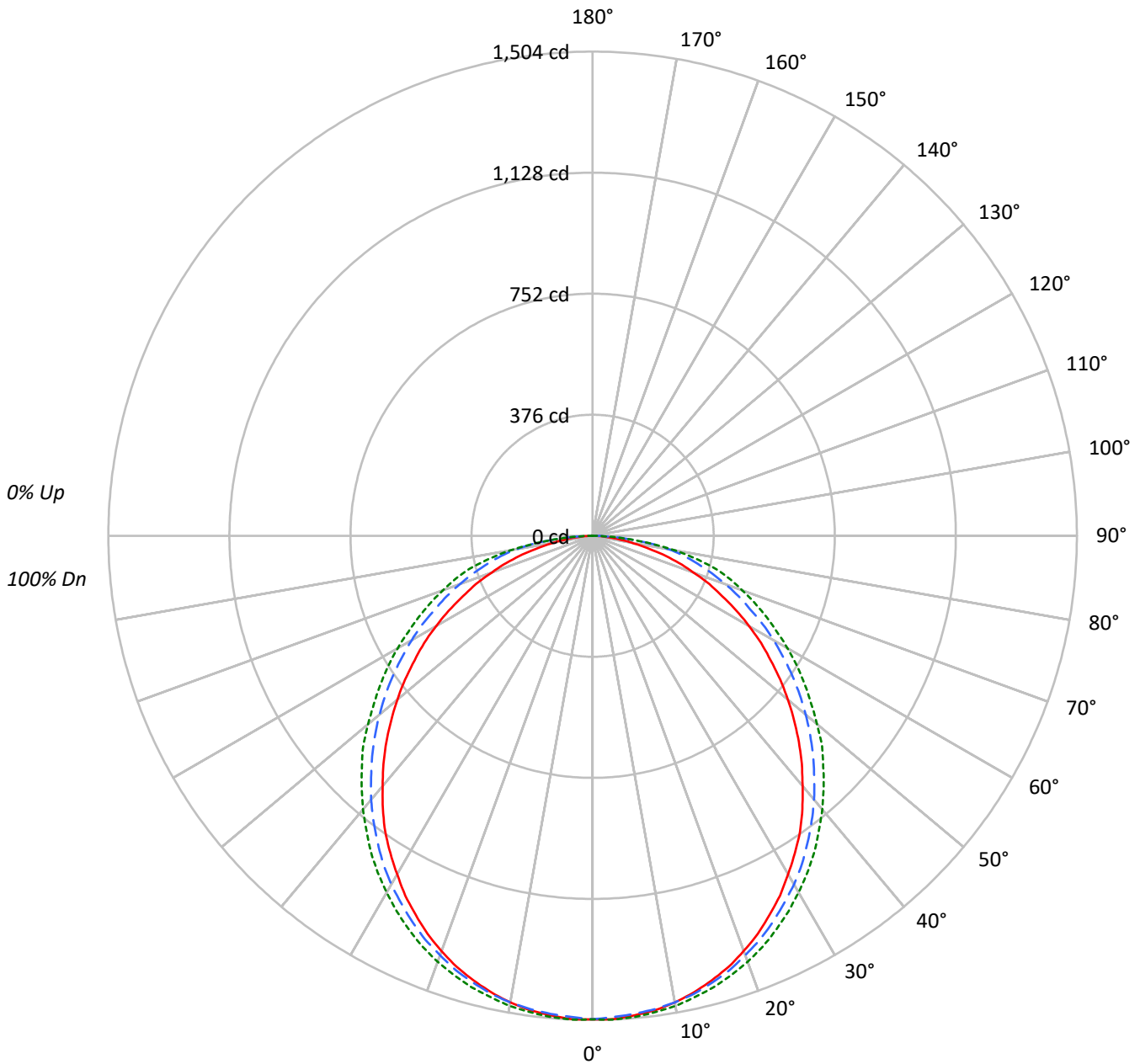
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4275.0 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' 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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

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

	0°	45°	90°
0°	2120	2120	2120
5°	2118	2112	2126
10°	2110	2110	2125
15°	2089	2099	2121
20°	2062	2082	2115
25°	2024	2062	2102
30°	1978	2038	2085
35°	1935	2005	2068
40°	1869	1971	2044
45°	1808	1932	2022
50°	1738	1896	1998
55°	1661	1861	1978
60°	1583	1832	1974
65°	1483	1800	1986
70°	1372	1810	2040
75°	1229	1844	2154
80°	993	1953	2107
85°	747	1715	1671



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.2	3.3
10°-20°	406.3	9.5
20°-30°	610.7	14.3
30°-40°	727.4	17.0
40°-50°	744.5	17.4
50°-60°	670.3	15.7
60°-70°	526.4	12.3
70°-80°	341.6	8.0
80°-90°	105.6	2.5
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°	1159.1	27.1
0°-40°	1886.6	44.1
0°-60°	3301.4	77.2
0°-90°	4275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4275.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1495	1498	1491	1499	1500	142
15°	1430	1434	1437	1449	1452	403
25°	1300	1310	1324	1346	1350	599
35°	1123	1137	1164	1192	1200	701
45°	906	928	968	1005	1013	698
55°	675	705	756	796	804	605
65°	444	478	539	584	595	442
75°	225	269	338	384	395	239
85°	46	86	106	103	103	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1501.9	1501.9	1501.9	1501.9	1501.9
2.5°	1503.2	1503.2	1496.3	1503.2	1504.5
5°	1495.0	1497.8	1490.9	1499.1	1500.4
7.5°	1486.9	1486.9	1482.8	1490.9	1492.4
10°	1472.0	1473.3	1472.0	1481.5	1482.8
12.5°	1453.0	1455.6	1457.1	1466.6	1467.9
15°	1429.9	1434.0	1436.6	1448.9	1451.7
17.5°	1404.1	1408.2	1414.9	1428.4	1431.2
20°	1372.8	1378.2	1386.4	1404.1	1408.2
22.5°	1339.0	1344.4	1357.9	1374.1	1381.0
25°	1299.5	1310.3	1323.9	1345.7	1349.8
27.5°	1260.1	1269.6	1287.3	1310.3	1315.9
30°	1214.0	1228.8	1250.6	1273.7	1279.1
32.5°	1169.1	1184.0	1209.9	1234.4	1241.1
35°	1123.0	1136.6	1163.7	1192.2	1200.4
37.5°	1070.0	1087.7	1117.6	1146.1	1154.2
40°	1014.4	1036.1	1070.0	1099.9	1109.4
42.5°	961.4	984.4	1018.4	1051.0	1061.8
45°	905.7	927.5	968.2	1004.9	1013.0
47.5°	848.6	873.2	916.5	953.2	966.7
50°	791.7	817.5	863.7	901.6	909.8
52.5°	734.6	761.8	810.7	851.4	855.5
55°	674.9	704.8	756.4	795.8	804.0
57.5°	620.6	646.4	702.0	742.8	752.3
60°	560.8	589.3	649.0	687.1	699.3
62.5°	503.7	533.7	596.2	634.1	644.9
65°	444.0	478.1	539.1	583.9	594.7
67.5°	392.5	425.0	490.2	533.7	544.5
70°	332.6	369.4	438.6	483.5	494.3
72.5°	281.1	319.0	388.4	431.8	448.1
75°	225.4	268.8	338.2	384.3	395.1
77.5°	171.1	221.4	291.9	327.2	327.2
80°	122.2	175.2	240.3	256.7	259.3
82.5°	80.2	131.7	177.8	176.5	176.5
85°	46.1	85.6	105.9	103.2	103.2
87.5°	17.7	35.3	38.0	38.0	36.6
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)