

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: P843083

Luminaire Tested: **24CZ2-45-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843083
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-B40
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

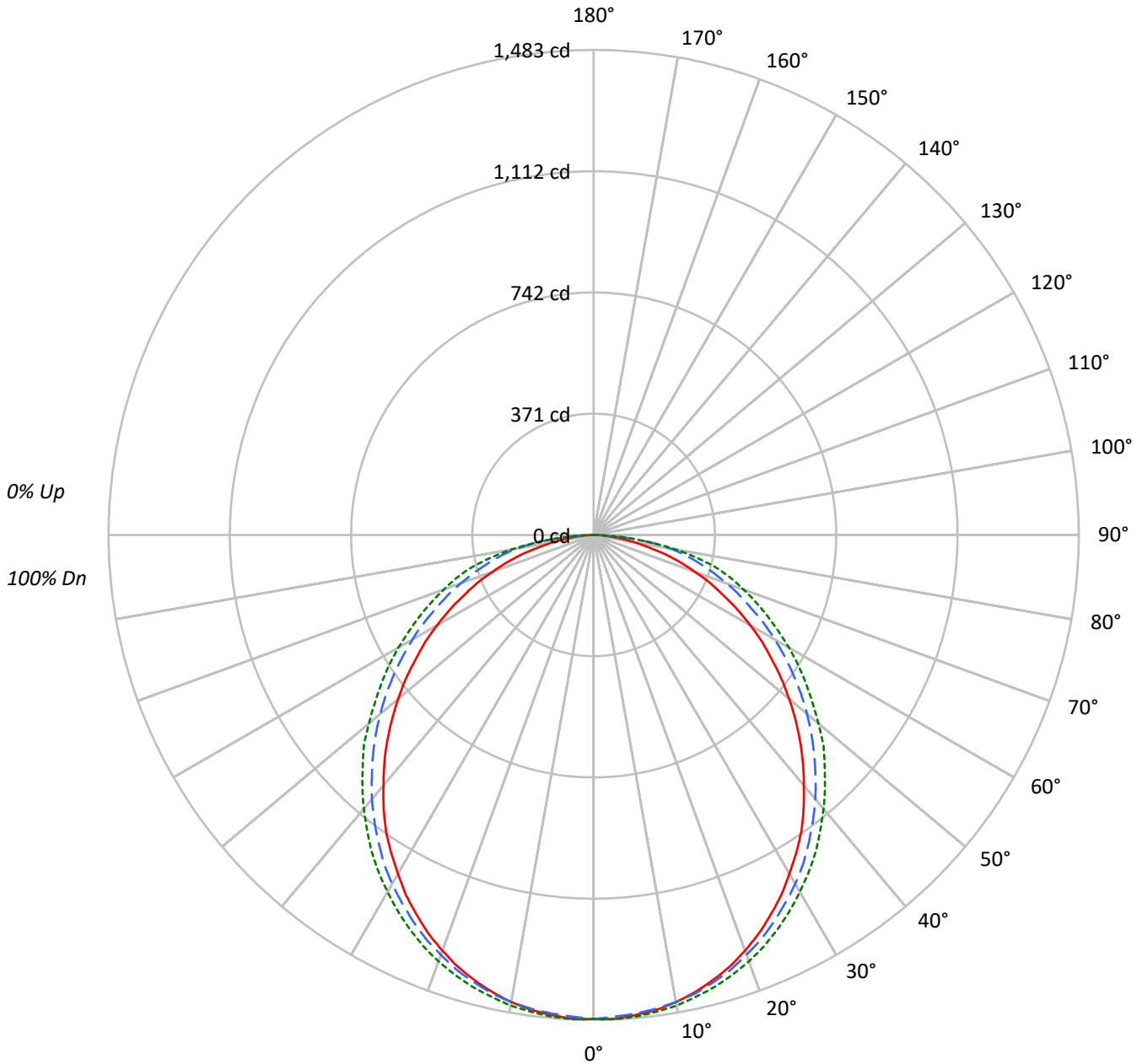
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4213.0 lumens
Efficiency: N/A
Efficacy: 117.0 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_{in}): 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°	2089	2089	2089
5°	2087	2082	2095
10°	2079	2079	2094
15°	2059	2069	2090
20°	2032	2052	2084
25°	1994	2032	2071
30°	1950	2009	2054
35°	1907	1976	2038
40°	1842	1943	2014
45°	1782	1905	1993
50°	1713	1869	1969
55°	1637	1834	1950
60°	1560	1805	1945
65°	1461	1774	1957
70°	1353	1784	2010
75°	1212	1817	2123
80°	979	1925	2077
85°	737	1689	1647



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	3.3
10°-20°	400.4	9.5
20°-30°	601.8	14.3
30°-40°	716.9	17.0
40°-50°	733.7	17.4
50°-60°	660.6	15.7
60°-70°	518.7	12.3
70°-80°	336.7	8.0
80°-90°	104.1	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°	1142.3	27.1
0°-40°	1859.2	44.1
0°-60°	3253.5	77.2
0°-90°	4213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1473	1476	1469	1477	1479	140
15°	1409	1413	1416	1428	1431	397
25°	1281	1291	1305	1326	1330	590
35°	1107	1120	1147	1175	1183	690
45°	893	914	954	990	998	688
55°	665	695	745	784	792	596
65°	438	471	531	575	586	436
75°	222	265	333	379	389	235
85°	46	84	104	102	102	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1480.1	1480.1	1480.1	1480.1	1480.1
2.5°	1481.4	1481.4	1474.6	1481.4	1482.7
5°	1473.4	1476.1	1469.3	1477.4	1478.7
7.5°	1465.3	1465.3	1461.3	1469.3	1470.8
10°	1450.6	1451.9	1450.6	1460.0	1461.3
12.5°	1431.9	1434.5	1435.9	1445.3	1446.6
15°	1409.2	1413.2	1415.8	1427.9	1430.6
17.5°	1383.7	1387.7	1394.3	1407.7	1410.5
20°	1352.9	1358.2	1366.3	1383.7	1387.7
22.5°	1319.5	1324.9	1338.2	1354.2	1361.0
25°	1280.7	1291.3	1304.7	1326.1	1330.2
27.5°	1241.8	1251.2	1268.6	1291.3	1296.8
30°	1196.4	1211.0	1232.5	1255.2	1260.5
32.5°	1152.2	1166.8	1192.3	1216.5	1223.1
35°	1106.7	1120.1	1146.9	1174.9	1183.0
37.5°	1054.5	1071.9	1101.4	1129.4	1137.5
40°	999.6	1021.1	1054.5	1084.0	1093.3
42.5°	947.4	970.1	1003.7	1035.8	1046.4
45°	892.6	914.0	954.2	990.3	998.4
47.5°	836.3	860.5	903.2	939.3	952.7
50°	780.2	805.7	851.2	888.6	896.6
52.5°	723.9	750.7	798.9	839.1	843.1
55°	665.1	694.6	745.4	784.2	792.3
57.5°	611.6	637.0	691.9	732.0	741.4
60°	552.7	580.8	639.6	677.2	689.1
62.5°	496.4	525.9	587.5	624.9	635.6
65°	437.6	471.1	531.3	575.4	586.1
67.5°	386.8	418.9	483.1	525.9	536.6
70°	327.8	364.1	432.3	476.4	487.1
72.5°	277.0	314.4	382.8	425.5	441.6
75°	222.2	264.9	333.3	378.7	389.4
77.5°	168.7	218.1	287.6	322.5	322.5
80°	120.4	172.7	236.9	253.0	255.6
82.5°	79.0	129.8	175.3	174.0	174.0
85°	45.5	84.3	104.3	101.7	101.7
87.5°	17.4	34.8	37.4	37.4	36.1
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)