

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: P843110

Luminaire Tested: **24CZ2-50-SQR-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50-SQR-UNV-B40
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

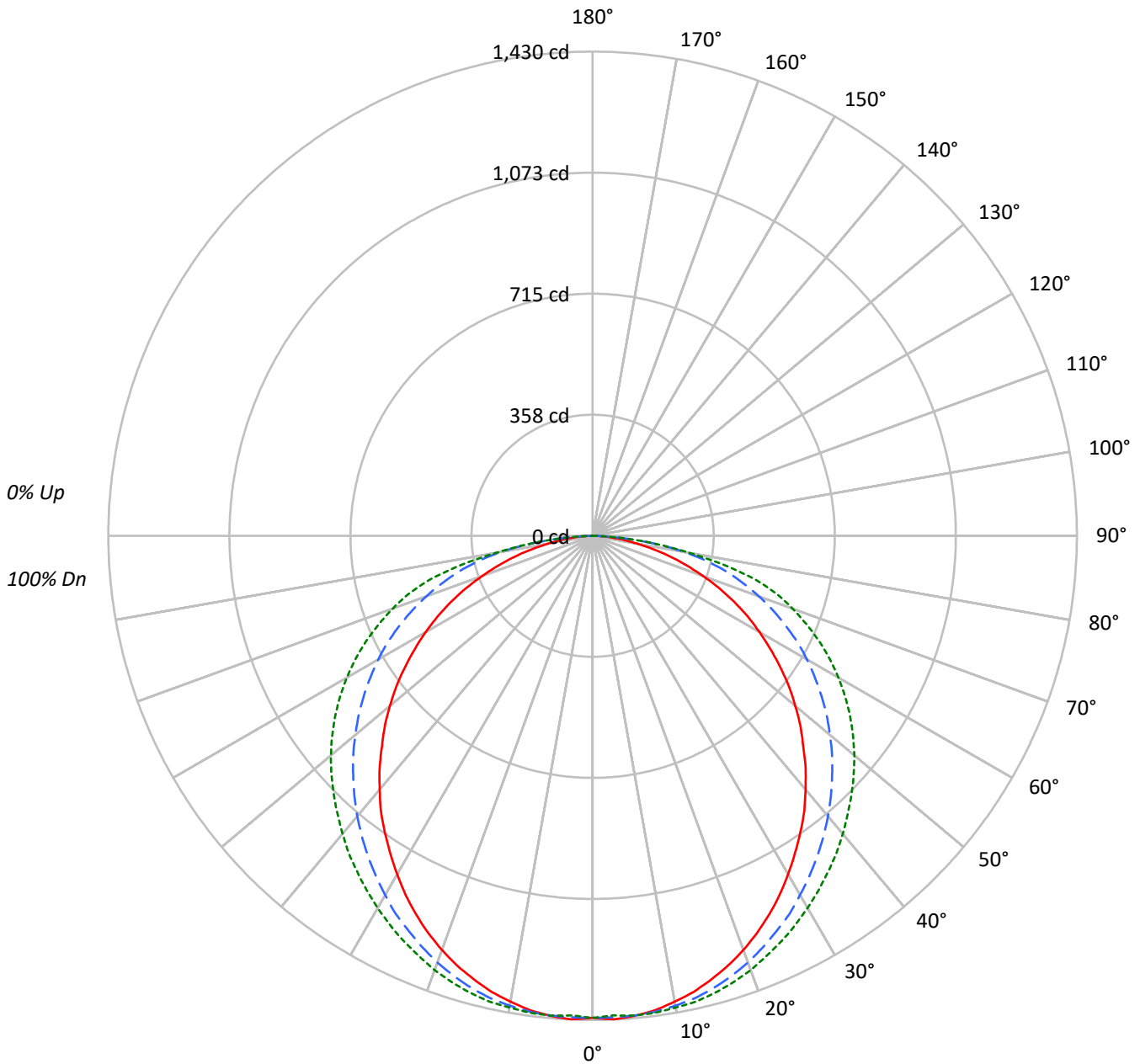
Lumens per Lamp: N/A
Luminaire Lumens: 4454.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2009	2009	2009
5°	2017	2015	2015
10°	2002	2019	2028
15°	1981	2020	2042
20°	1955	2015	2050
25°	1922	2004	2057
30°	1881	1997	2069
35°	1842	1992	2088
40°	1802	1992	2117
45°	1755	1996	2158
50°	1715	2009	2215
55°	1665	2030	2283
60°	1607	2063	2367
65°	1537	2102	2466
70°	1426	2155	2592
75°	1291	2230	2711
80°	1087	2236	2330
85°	832	1691	1691



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.0
10°-20°	388.8	8.7
20°-30°	590.6	13.3
30°-40°	718.4	16.1
40°-50°	764.8	17.2
50°-60°	728.5	16.4
60°-70°	609.2	13.7
70°-80°	406.2	9.1
80°-90°	112.4	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°	1114.6	25.0
0°-40°	1833.0	41.2
0°-60°	3326.3	74.7
0°-90°	4454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1424	1415	1422	1422	1422	135
15°	1356	1359	1382	1393	1397	382
25°	1234	1250	1287	1309	1321	568
35°	1069	1100	1156	1194	1212	669
45°	880	927	1000	1056	1081	680
55°	677	735	825	897	928	605
65°	460	528	629	707	738	455
75°	237	312	409	478	497	251
85°	51	96	104	103	104	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.6	1423.6	1423.6	1423.6	1423.6
2.5°	1429.6	1419.2	1423.6	1423.6	1417.9
5°	1423.6	1414.8	1422.3	1422.3	1422.3
7.5°	1413.5	1406.1	1417.9	1420.8	1420.8
10°	1397.3	1394.4	1409.1	1413.5	1414.8
12.5°	1379.7	1378.1	1398.8	1404.5	1409.1
15°	1356.0	1359.0	1382.5	1392.9	1397.3
17.5°	1331.1	1336.9	1363.4	1378.1	1382.5
20°	1301.7	1310.5	1341.4	1356.0	1365.0
22.5°	1269.4	1282.6	1314.9	1332.5	1342.8
25°	1234.0	1250.1	1287.0	1309.0	1320.8
27.5°	1195.8	1216.4	1259.1	1283.9	1295.8
30°	1154.5	1178.0	1225.2	1254.7	1269.4
32.5°	1111.9	1139.8	1191.4	1223.7	1241.3
35°	1069.3	1100.2	1156.0	1194.3	1211.8
37.5°	1026.6	1057.4	1119.3	1160.4	1182.6
40°	978.1	1014.8	1081.1	1126.6	1148.8
42.5°	931.1	970.6	1041.3	1091.2	1114.9
45°	879.5	926.7	1000.1	1056.1	1081.1
47.5°	832.4	879.5	959.0	1017.8	1045.7
50°	781.0	830.9	914.8	979.6	1009.0
52.5°	730.9	782.5	870.7	939.9	969.3
55°	676.6	735.3	825.2	897.2	928.0
57.5°	622.2	685.4	778.0	853.1	884.0
60°	569.2	633.8	730.9	806.1	838.4
62.5°	516.3	580.9	682.4	758.8	789.8
65°	460.3	527.9	629.4	707.4	738.4
67.5°	404.5	475.0	576.5	654.5	683.9
70°	345.6	420.7	522.2	598.7	628.1
72.5°	291.3	366.2	466.2	541.3	569.2
75°	236.8	311.8	408.9	478.0	497.2
77.5°	183.9	258.8	345.6	391.3	395.7
80°	133.8	204.5	275.1	288.2	286.7
82.5°	89.6	152.9	189.8	191.1	195.5
85°	51.4	95.6	104.4	103.0	104.4
87.5°	20.6	33.8	29.4	22.0	22.0
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)