

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: P843111

Luminaire Tested: **24CZ2-50-SQR-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843111
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-B50
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

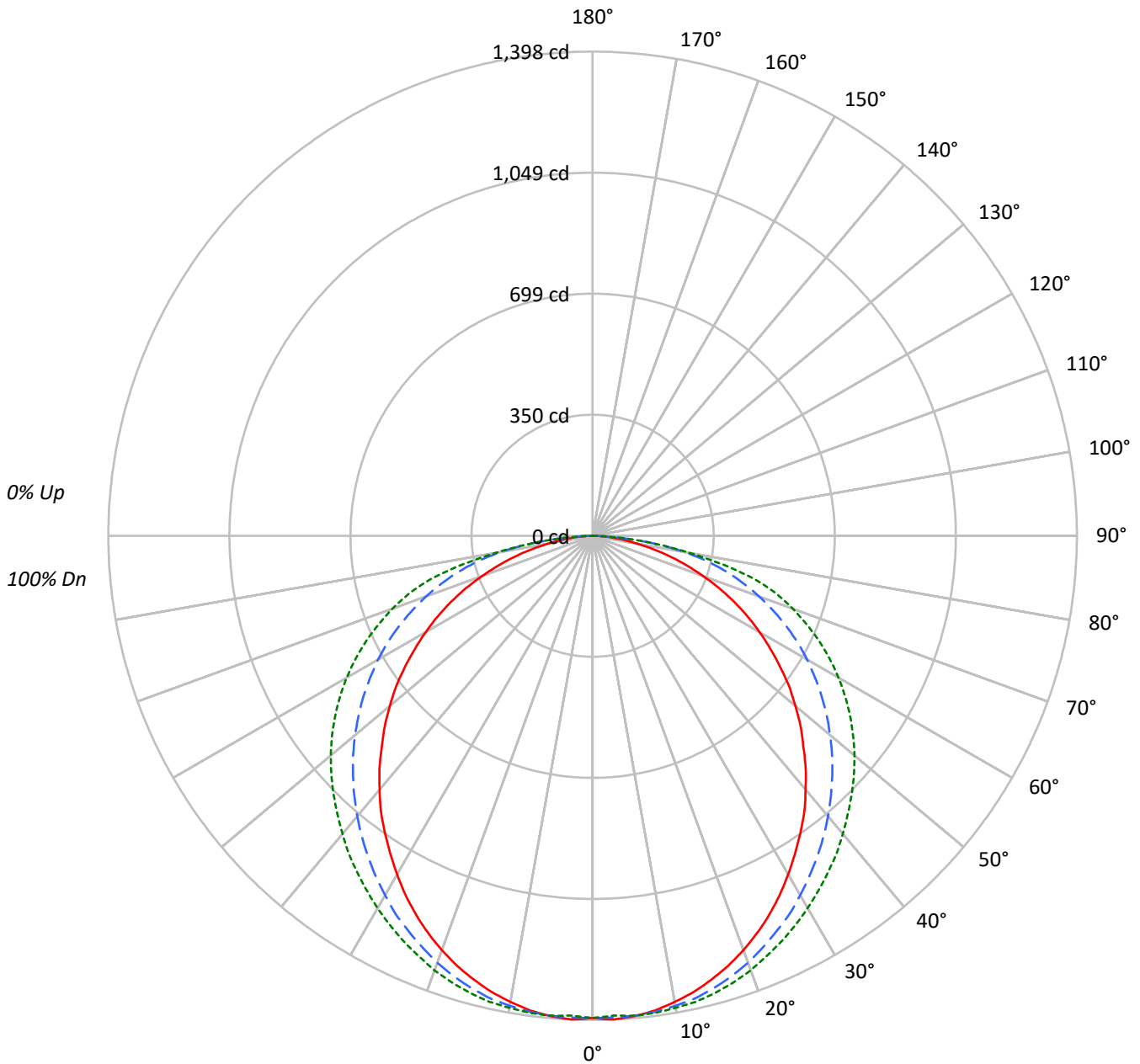
Lumens per Lamp: N/A
Luminaire Lumens: 4356.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1965	1965	1965
5°	1973	1971	1971
10°	1958	1975	1983
15°	1938	1976	1997
20°	1912	1970	2005
25°	1879	1960	2011
30°	1840	1953	2023
35°	1802	1948	2042
40°	1762	1948	2070
45°	1717	1952	2110
50°	1677	1964	2167
55°	1628	1986	2233
60°	1571	2018	2314
65°	1503	2056	2411
70°	1395	2107	2535
75°	1263	2181	2651
80°	1064	2186	2279
85°	815	1653	1653



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	3.0
10°-20°	380.3	8.7
20°-30°	577.6	13.3
30°-40°	702.6	16.1
40°-50°	748.0	17.2
50°-60°	712.5	16.4
60°-70°	595.8	13.7
70°-80°	397.2	9.1
80°-90°	109.9	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°	1090.0	25.0
0°-40°	1792.6	41.2
0°-60°	3253.1	74.7
0°-90°	4356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1392	1392	1392	1392	1392	
5°	1392	1384	1391	1391	1391	132
15°	1326	1329	1352	1362	1366	374
25°	1207	1223	1259	1280	1292	556
35°	1046	1076	1131	1168	1185	654
45°	860	906	978	1033	1057	665
55°	662	719	807	878	908	592
65°	450	516	616	692	722	445
75°	232	305	400	468	486	245
85°	50	94	102	101	102	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1392.3	1392.3	1392.3	1392.3	1392.3
2.5°	1398.1	1388.0	1392.3	1392.3	1386.7
5°	1392.3	1383.7	1391.0	1391.0	1391.0
7.5°	1382.4	1375.1	1386.7	1389.5	1389.5
10°	1366.5	1363.7	1378.1	1382.4	1383.7
12.5°	1349.3	1347.8	1368.0	1373.6	1378.1
15°	1326.1	1329.1	1352.1	1362.2	1366.5
17.5°	1301.8	1307.4	1333.4	1347.8	1352.1
20°	1273.0	1281.6	1311.9	1326.1	1334.9
22.5°	1241.5	1254.4	1285.9	1303.1	1313.2
25°	1206.9	1222.6	1258.7	1280.2	1291.7
27.5°	1169.5	1189.7	1231.4	1255.7	1267.3
30°	1129.1	1152.1	1198.3	1227.1	1241.5
32.5°	1087.4	1114.7	1165.2	1196.8	1214.0
35°	1045.7	1076.0	1130.6	1168.0	1185.2
37.5°	1004.0	1034.1	1094.7	1134.9	1156.6
40°	956.6	992.5	1057.3	1101.8	1123.5
42.5°	910.6	949.3	1018.4	1067.2	1090.4
45°	860.1	906.3	978.1	1032.8	1057.3
47.5°	814.1	860.1	937.9	995.4	1022.7
50°	763.8	812.6	894.7	958.1	986.8
52.5°	714.9	765.3	851.5	919.2	948.0
55°	661.8	719.1	807.0	877.5	907.6
57.5°	608.5	670.4	760.8	834.3	864.6
60°	556.7	619.9	714.9	788.3	819.9
62.5°	504.9	568.1	667.4	742.1	772.4
65°	450.1	516.3	615.6	691.9	722.1
67.5°	395.6	464.5	563.8	640.1	668.9
70°	338.0	411.5	510.7	585.5	614.3
72.5°	284.9	358.2	455.9	529.4	556.7
75°	231.6	304.9	399.9	467.5	486.2
77.5°	179.8	253.1	338.0	382.7	387.0
80°	130.9	200.0	269.0	281.9	280.4
82.5°	87.7	149.6	185.6	186.9	191.2
85°	50.3	93.5	102.1	100.8	102.1
87.5°	20.2	33.1	28.8	21.5	21.5
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)