

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: P880917

Luminaire Tested: **24CZ2-50VHE-SQR-B2750-W2D-2700K**

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: P880917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474669)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50VHE-SQR-B2750-W2D-2700K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

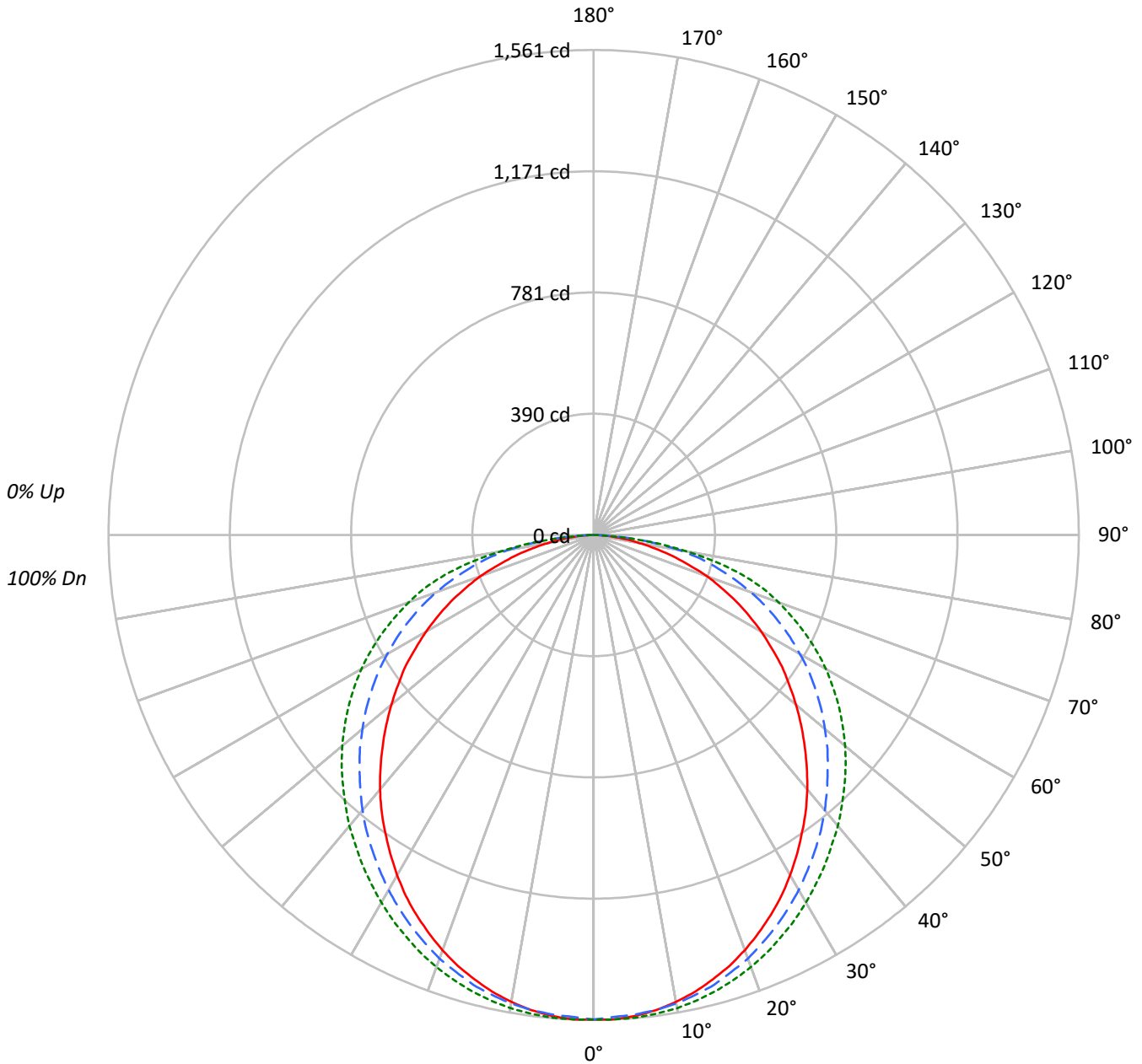
Lumens per Lamp: N/A
Luminaire Lumens: 4748.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 38
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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2201	2201	2201
5°	2201	2195	2210
10°	2187	2195	2216
15°	2163	2190	2220
20°	2136	2179	2223
25°	2101	2164	2223
30°	2061	2151	2226
35°	2014	2138	2235
40°	1970	2131	2253
45°	1917	2126	2277
50°	1865	2132	2318
55°	1822	2147	2370
60°	1760	2163	2437
65°	1689	2189	2510
70°	1603	2219	2611
75°	1436	2250	2697
80°	1209	2257	2447
85°	897	1707	1610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	3.1
10°-20°	423.6	8.9
20°-30°	641.2	13.5
30°-40°	775.7	16.3
40°-50°	818.7	17.2
50°-60°	772.1	16.3
60°-70°	636.6	13.4
70°-80°	417.6	8.8
80°-90°	114.8	2.4
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°	1212.5	25.5
0°-40°	1988.2	41.9
0°-60°	3579.0	75.4
0°-90°	4748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1553	1553	1549	1560	1560	147
15°	1481	1489	1499	1516	1519	418
25°	1350	1366	1390	1418	1428	621
35°	1169	1199	1241	1284	1297	732
45°	960	1004	1065	1122	1141	741
55°	740	793	872	938	963	660
65°	506	567	656	725	752	500
75°	263	331	413	478	495	278
85°	55	96	105	102	99	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1559.6	1559.6	1559.6	1559.6	1559.6
2.5°	1561.0	1559.6	1552.8	1561.8	1561.0
5°	1553.4	1553.4	1549.0	1559.6	1559.6
7.5°	1542.8	1543.6	1542.0	1554.2	1554.2
10°	1526.2	1529.2	1531.4	1545.2	1546.6
12.5°	1506.4	1511.8	1516.3	1533.0	1534.6
15°	1480.7	1489.0	1498.9	1516.3	1519.4
17.5°	1454.1	1464.0	1474.6	1497.4	1501.2
20°	1422.3	1433.7	1451.1	1473.9	1479.9
22.5°	1386.7	1402.5	1420.7	1448.1	1455.7
25°	1349.5	1366.1	1389.7	1418.5	1427.5
27.5°	1309.3	1328.9	1355.5	1388.9	1398.7
30°	1264.5	1287.2	1319.9	1355.5	1366.1
32.5°	1217.4	1244.0	1280.4	1319.9	1331.9
35°	1169.0	1199.2	1241.0	1283.5	1297.1
37.5°	1121.1	1151.4	1200.8	1245.6	1258.4
40°	1069.5	1102.9	1156.8	1204.6	1222.8
42.5°	1014.9	1054.4	1111.2	1164.4	1181.8
45°	960.3	1003.5	1065.0	1121.8	1140.8
47.5°	904.9	952.7	1020.3	1077.9	1099.9
50°	849.6	900.4	970.9	1033.1	1055.9
52.5°	793.4	846.6	923.1	989.1	1009.7
55°	740.4	792.6	872.4	937.5	963.3
57.5°	678.9	738.0	822.2	888.3	913.3
60°	623.5	681.2	766.2	836.0	863.2
62.5°	563.5	622.7	712.2	782.0	808.6
65°	505.9	566.7	655.5	725.2	751.6
67.5°	443.8	507.5	598.5	666.1	691.8
70°	388.4	448.4	537.7	606.9	632.7
72.5°	320.8	389.2	474.8	543.1	571.1
75°	263.3	330.7	412.6	477.9	494.6
77.5°	202.5	270.1	351.2	393.6	405.0
80°	148.7	212.3	277.7	300.4	301.1
82.5°	100.1	156.3	193.5	204.9	203.3
85°	55.4	95.6	105.4	102.4	99.4
87.5°	22.8	31.8	25.8	18.2	14.4
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)