

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: P880897

Luminaire Tested: **24CZ2-50VHE-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: P880897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50VHE-B2750-W2D-2700K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

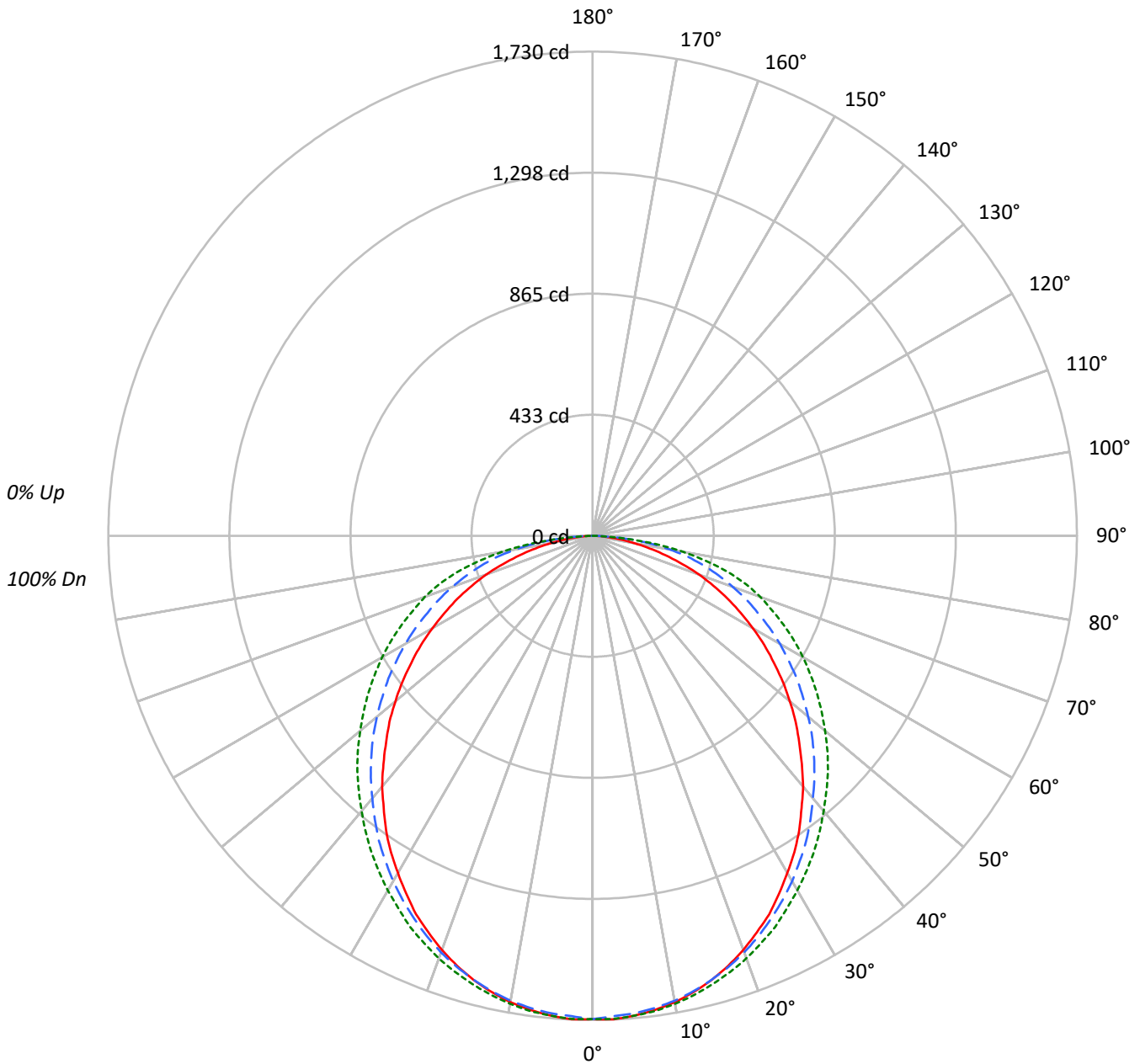
Lumens per Lamp: N/A
Luminaire Lumens: 4998.0 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68																			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57																			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48																			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42																			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37																			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2438	2438	2438
5°	2439	2426	2439
10°	2425	2417	2434
15°	2401	2400	2423
20°	2365	2379	2413
25°	2324	2350	2402
30°	2267	2322	2385
35°	2216	2293	2375
40°	2156	2255	2365
45°	2082	2232	2372
50°	2019	2207	2379
55°	1945	2191	2406
60°	1865	2181	2450
65°	1777	2174	2513
70°	1672	2196	2629
75°	1471	2241	2734
80°	1228	2258	2638
85°	878	1935	1961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	3.3
10°-20°	465.0	9.3
20°-30°	697.7	14.0
30°-40°	832.9	16.7
40°-50°	862.8	17.3
50°-60°	794.3	15.9
60°-70°	640.7	12.8
70°-80°	418.6	8.4
80°-90°	122.7	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°	1326.0	26.5
0°-40°	2158.9	43.2
0°-60°	3816.0	76.3
0°-90°	4998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1721	1720	1713	1722	1721	163
15°	1643	1643	1642	1659	1659	463
25°	1492	1495	1509	1536	1542	686
35°	1286	1298	1331	1367	1378	803
45°	1043	1069	1118	1168	1189	806
55°	790	824	891	956	978	707
65°	532	568	651	725	753	526
75°	270	320	411	482	501	288
85°	54	94	120	127	121	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1727.1	1727.1	1727.1	1727.1	1727.1
2.5°	1729.5	1727.1	1718.2	1728.7	1727.9
5°	1721.4	1719.8	1712.6	1722.2	1721.4
7.5°	1708.5	1707.7	1702.1	1712.6	1712.6
10°	1692.4	1690.8	1686.8	1698.9	1698.1
12.5°	1669.8	1669.0	1666.6	1681.1	1680.3
15°	1643.1	1643.1	1642.3	1658.6	1658.6
17.5°	1610.8	1611.6	1614.9	1633.4	1634.2
20°	1574.6	1577.8	1584.2	1605.2	1606.8
22.5°	1533.3	1539.7	1548.6	1572.1	1574.6
25°	1492.2	1495.4	1509.1	1536.5	1542.2
27.5°	1442.0	1450.3	1468.0	1496.2	1501.8
30°	1391.2	1402.5	1425.1	1454.3	1463.2
32.5°	1341.1	1350.9	1377.5	1410.6	1421.1
35°	1286.3	1297.6	1330.6	1367.1	1378.3
37.5°	1225.7	1243.4	1278.2	1320.1	1332.2
40°	1170.0	1186.2	1224.1	1271.0	1283.9
42.5°	1106.2	1126.3	1172.5	1220.0	1236.1
45°	1043.2	1069.1	1118.3	1168.4	1188.6
47.5°	984.3	1005.3	1063.5	1119.9	1137.6
50°	919.6	943.8	1005.3	1065.1	1083.6
52.5°	856.0	885.0	947.1	1010.1	1030.3
55°	790.5	824.4	890.6	956.1	977.9
57.5°	727.5	761.5	830.0	899.5	922.1
60°	660.6	696.8	772.8	839.7	868.1
62.5°	595.9	632.2	712.1	784.9	811.5
65°	532.1	568.5	650.9	725.0	752.6
67.5°	466.0	505.5	593.5	665.4	692.0
70°	405.3	443.2	532.1	608.8	637.0
72.5°	335.8	381.1	471.6	547.4	574.1
75°	269.7	320.5	411.0	482.1	501.4
77.5°	208.3	259.3	349.5	402.9	415.0
80°	151.1	202.7	277.8	314.9	324.6
82.5°	97.7	151.1	201.1	226.0	229.3
85°	54.2	93.7	119.5	126.7	121.1
87.5°	19.3	35.5	34.7	28.2	22.6
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)