

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: P881292

Luminaire Tested: **24CZ2-75VHE-RDP-UNV-B50**

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: P881292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75VHE-RDP-UNV-B50
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

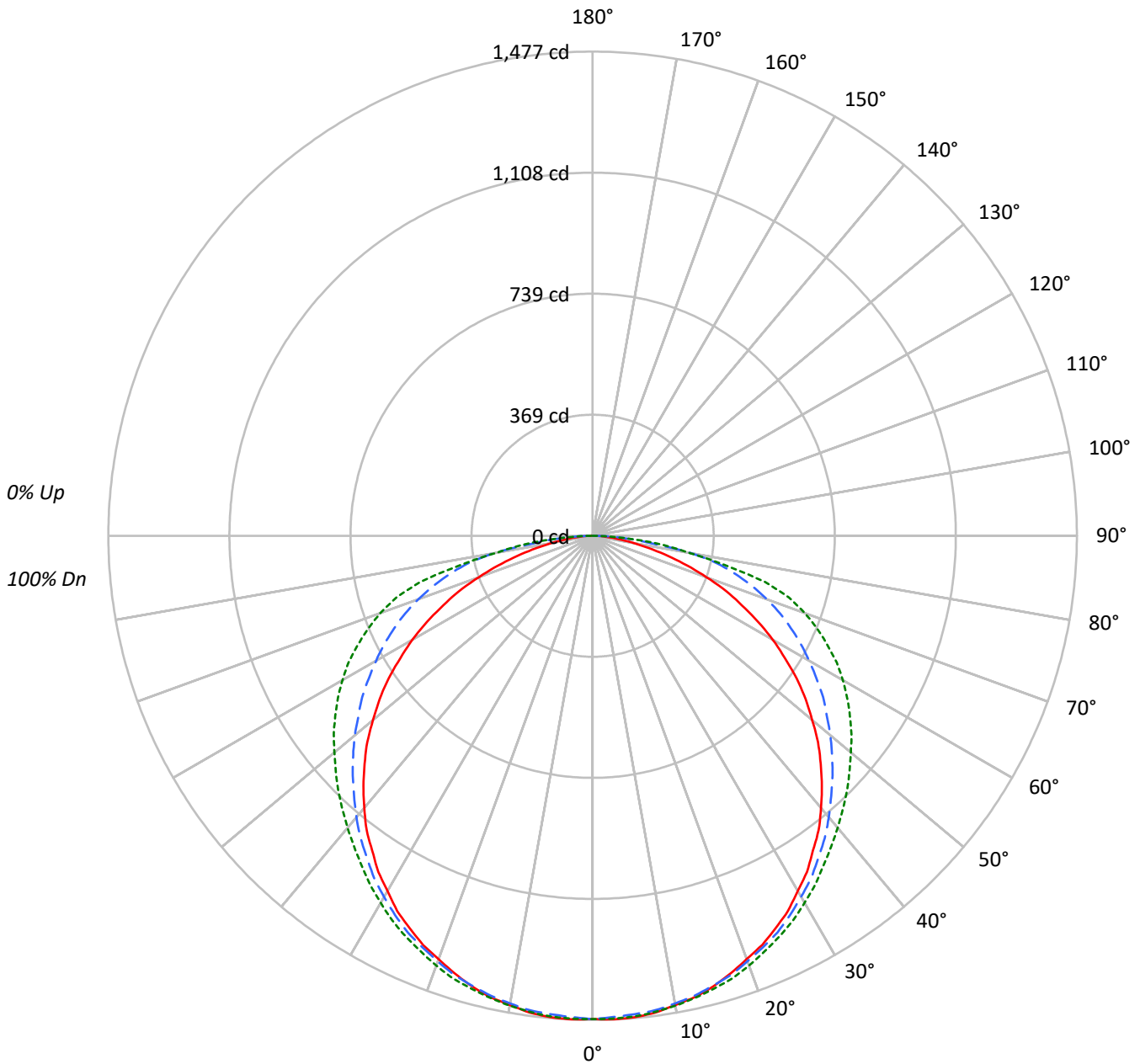
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4688.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2081	2081	2081
5°	2089	2076	2086
10°	2083	2076	2086
15°	2079	2076	2089
20°	2064	2074	2096
25°	2057	2078	2100
30°	2039	2073	2107
35°	2019	2067	2115
40°	1997	2065	2142
45°	1963	2065	2190
50°	1919	2078	2257
55°	1871	2111	2357
60°	1792	2153	2487
65°	1677	2228	2640
70°	1526	2332	2840
75°	1293	2460	2968
80°	1021	2475	2399
85°	753	1883	2110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	3.0
10°-20°	402.5	8.6
20°-30°	615.5	13.1
30°-40°	752.4	16.0
40°-50°	801.9	17.1
50°-60°	766.7	16.4
60°-70°	649.5	13.9
70°-80°	436.5	9.3
80°-90°	123.2	2.6
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°	1157.8	24.7
0°-40°	1910.2	40.7
0°-60°	3478.8	74.2
0°-90°	4688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1474	1472	1465	1472	1472	140
15°	1423	1423	1421	1432	1430	401
25°	1321	1325	1335	1346	1349	609
35°	1172	1181	1200	1223	1228	734
45°	984	1000	1035	1079	1097	759
55°	760	788	858	926	958	677
65°	502	554	667	756	791	499
75°	237	323	451	528	544	254
85°	46	95	116	126	130	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.3	1474.3	1474.3	1474.3	1474.3
2.5°	1476.6	1476.6	1469.6	1474.3	1474.3
5°	1474.3	1472.1	1465.0	1472.1	1472.1
7.5°	1467.3	1465.0	1460.2	1467.3	1465.0
10°	1453.4	1453.4	1448.7	1455.7	1455.7
12.5°	1441.6	1439.4	1437.1	1446.4	1444.1
15°	1423.0	1423.0	1420.7	1432.3	1430.0
17.5°	1399.8	1402.1	1404.6	1413.9	1416.2
20°	1374.2	1379.0	1381.2	1395.3	1395.3
22.5°	1351.0	1353.3	1358.1	1371.9	1371.9
25°	1320.8	1325.4	1334.7	1346.3	1348.8
27.5°	1290.4	1292.9	1304.5	1320.8	1323.1
30°	1250.9	1257.9	1272.0	1290.4	1292.9
32.5°	1216.2	1223.0	1239.3	1257.9	1262.7
35°	1171.9	1181.2	1199.8	1223.0	1227.7
37.5°	1132.4	1139.2	1162.6	1188.2	1195.0
40°	1083.8	1097.4	1120.8	1151.0	1162.6
42.5°	1034.7	1048.8	1076.7	1116.0	1129.9
45°	983.6	1000.0	1034.7	1079.0	1097.4
47.5°	932.6	951.2	990.7	1041.8	1062.7
50°	874.2	897.6	946.4	1004.5	1027.9
52.5°	818.6	846.5	899.9	965.0	995.2
55°	760.2	788.1	858.1	925.5	958.0
57.5°	695.3	732.3	809.3	886.0	920.7
60°	634.9	669.6	762.7	846.5	881.2
62.5°	569.7	616.3	716.2	804.5	839.5
65°	502.3	553.6	667.3	755.7	790.6
67.5°	441.9	497.7	618.5	706.9	741.6
70°	369.7	439.4	565.2	653.3	688.2
72.5°	302.2	379.0	509.3	595.4	627.8
75°	237.1	323.1	451.2	527.9	544.3
77.5°	176.9	267.3	390.6	423.2	411.7
80°	125.6	214.1	304.5	288.1	295.2
82.5°	81.5	162.8	188.5	214.1	220.7
85°	46.5	95.4	116.3	125.6	130.3
87.5°	20.9	35.0	46.5	46.5	44.3
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)