

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: P881238

Luminaire Tested: **24CZ2-55VHE-SQR-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: P881238
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: 24CZ2-55VHE-SQR-UNV-B50
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

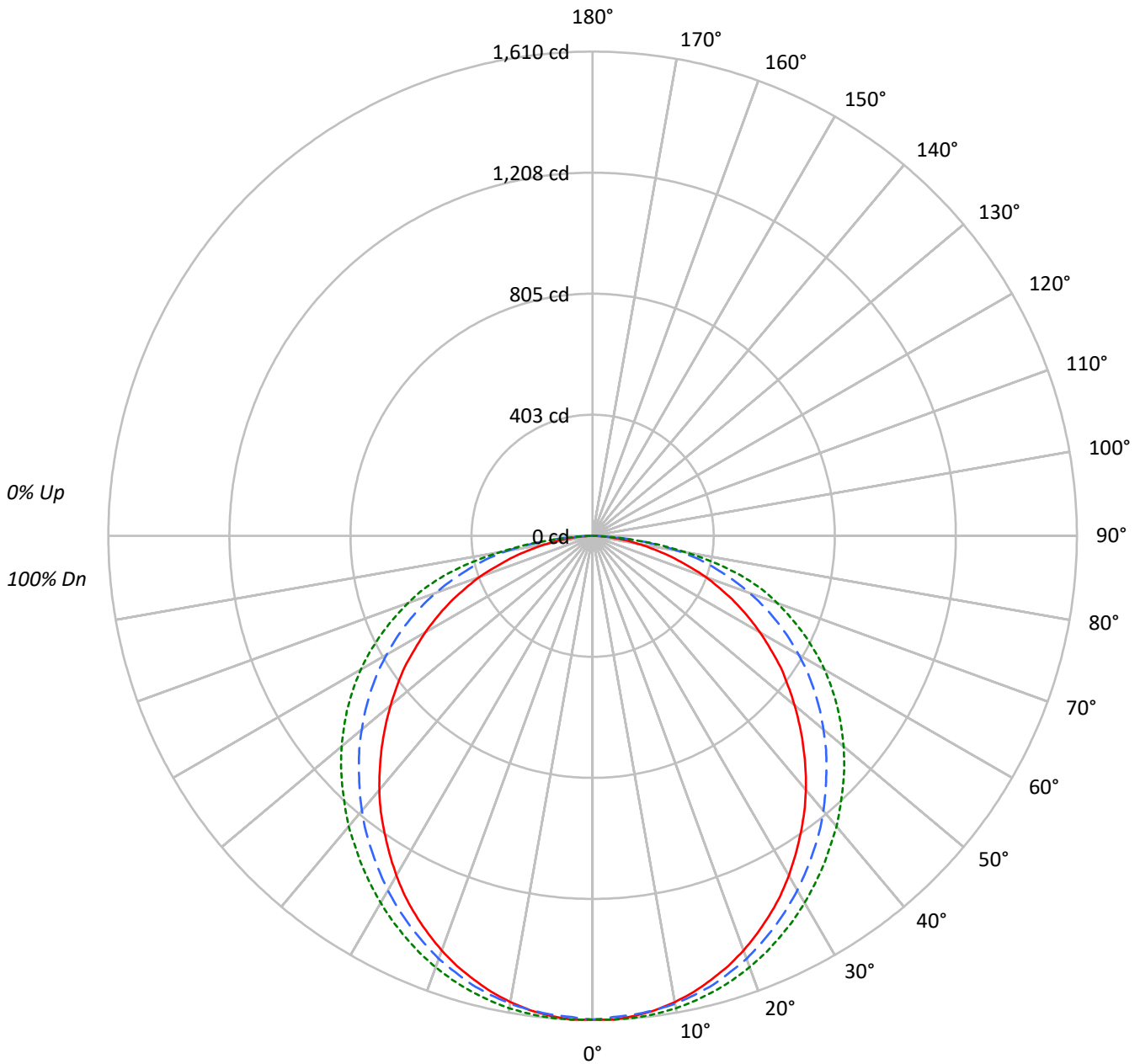
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4898.0 lumens
Efficiency: N/A
Efficacy: 113.9 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): 43
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°	2271	2271	2271
5°	2270	2264	2279
10°	2256	2264	2287
15°	2232	2259	2290
20°	2204	2248	2293
25°	2168	2232	2293
30°	2126	2219	2297
35°	2078	2206	2305
40°	2033	2199	2324
45°	1977	2193	2349
50°	1924	2199	2392
55°	1879	2214	2445
60°	1816	2231	2513
65°	1743	2258	2589
70°	1653	2289	2693
75°	1481	2321	2782
80°	1247	2328	2524
85°	925	1760	1660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	3.1
10°-20°	436.9	8.9
20°-30°	661.4	13.5
30°-40°	800.2	16.3
40°-50°	844.6	17.2
50°-60°	796.5	16.3
60°-70°	656.7	13.4
70°-80°	430.8	8.8
80°-90°	118.4	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°	1250.9	25.5
0°-40°	2051.0	41.9
0°-60°	3692.1	75.4
0°-90°	4898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1602	1602	1598	1609	1609	152
15°	1527	1536	1546	1564	1567	431
25°	1392	1409	1434	1463	1473	641
35°	1206	1237	1280	1324	1338	755
45°	991	1035	1099	1157	1177	765
55°	764	818	900	967	994	680
65°	522	585	676	748	775	515
75°	272	341	426	493	510	287
85°	57	99	109	106	102	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1608.9	1608.9	1608.9	1608.9	1608.9
2.5°	1610.3	1608.9	1601.9	1611.2	1610.3
5°	1602.5	1602.5	1597.9	1608.9	1608.9
7.5°	1591.6	1592.4	1590.8	1603.3	1603.3
10°	1574.4	1577.5	1579.8	1594.0	1595.5
12.5°	1554.0	1559.6	1564.2	1581.5	1583.1
15°	1527.4	1536.1	1546.2	1564.2	1567.4
17.5°	1500.0	1510.3	1521.2	1544.7	1548.7
20°	1467.2	1479.0	1496.9	1520.4	1526.6
22.5°	1430.5	1446.8	1465.6	1493.8	1501.7
25°	1392.1	1409.3	1433.6	1463.3	1472.6
27.5°	1350.7	1370.9	1398.3	1432.8	1442.9
30°	1304.5	1327.8	1361.6	1398.3	1409.3
32.5°	1255.9	1283.3	1320.8	1361.6	1374.0
35°	1205.9	1237.1	1280.2	1324.1	1338.1
37.5°	1156.5	1187.8	1238.7	1284.9	1298.1
40°	1103.3	1137.7	1193.4	1242.6	1261.4
42.5°	1047.0	1087.8	1146.4	1201.2	1219.1
45°	990.7	1035.2	1098.7	1157.3	1176.9
47.5°	933.5	982.8	1052.5	1111.9	1134.6
50°	876.4	928.8	1001.6	1065.7	1089.2
52.5°	818.5	873.3	952.3	1020.4	1041.6
55°	763.8	817.7	899.9	967.2	993.8
57.5°	700.3	761.4	848.2	916.4	942.2
60°	643.2	702.8	790.4	862.4	890.4
62.5°	581.3	642.4	734.7	806.7	834.1
65°	521.9	584.6	676.2	748.1	775.4
67.5°	457.8	523.6	617.4	687.1	713.7
70°	400.7	462.5	554.7	626.1	652.7
72.5°	331.0	401.5	489.8	560.3	589.2
75°	271.6	341.1	425.6	493.0	510.2
77.5°	208.9	278.6	362.3	406.1	417.8
80°	153.4	219.0	286.4	309.9	310.6
82.5°	103.3	161.2	199.6	211.4	209.7
85°	57.1	98.6	108.7	105.6	102.5
87.5°	23.5	32.8	26.6	18.8	14.9
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)