

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: P880923

Luminaire Tested: **24CZ2-55VHE-B2750-W2D-3000K**

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: P880923
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: 24CZ2-55VHE-B2750-W2D-3000K
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

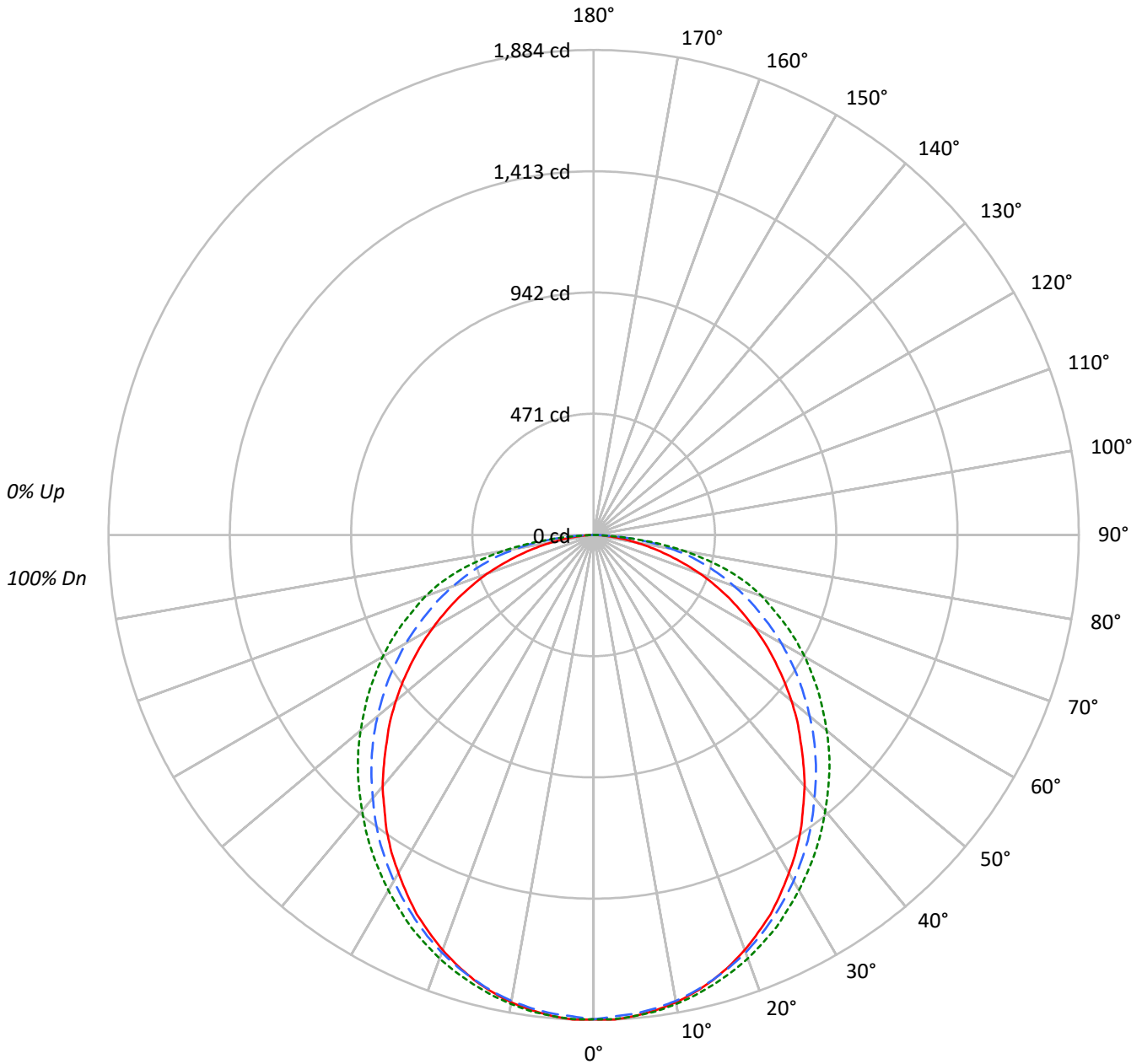
Lumens per Lamp: N/A
Luminaire Lumens: 5446.0 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2656	2656	2656
5°	2657	2644	2657
10°	2643	2634	2652
15°	2616	2615	2641
20°	2577	2593	2630
25°	2532	2561	2617
30°	2471	2531	2598
35°	2415	2498	2588
40°	2349	2457	2577
45°	2269	2432	2585
50°	2200	2405	2593
55°	2120	2388	2622
60°	2032	2377	2670
65°	1936	2368	2739
70°	1823	2392	2864
75°	1603	2442	2980
80°	1338	2460	2874
85°	955	2108	2136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	3.3
10°-20°	506.7	9.3
20°-30°	760.2	14.0
30°-40°	907.6	16.7
40°-50°	940.1	17.3
50°-60°	865.5	15.9
60°-70°	698.1	12.8
70°-80°	456.1	8.4
80°-90°	133.7	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°	1444.8	26.5
0°-40°	2352.4	43.2
0°-60°	4158.0	76.3
0°-90°	5446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1876	1874	1866	1877	1876	178
15°	1790	1790	1790	1807	1807	504
25°	1626	1629	1644	1674	1680	748
35°	1402	1414	1450	1490	1502	876
45°	1137	1165	1218	1273	1295	879
55°	861	898	970	1042	1066	771
65°	580	620	709	790	820	573
75°	294	349	448	525	546	314
85°	59	102	130	138	132	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.9	1881.9	1881.9	1881.9	1881.9
2.5°	1884.5	1881.9	1872.2	1883.7	1882.8
5°	1875.7	1874.0	1866.1	1876.6	1875.7
7.5°	1861.7	1860.8	1854.7	1866.1	1866.1
10°	1844.1	1842.4	1838.0	1851.1	1850.3
12.5°	1819.5	1818.6	1816.0	1831.8	1830.9
15°	1790.4	1790.4	1789.5	1807.2	1807.2
17.5°	1755.2	1756.1	1759.6	1779.8	1780.7
20°	1715.7	1719.2	1726.2	1749.1	1750.8
22.5°	1670.7	1677.8	1687.4	1713.1	1715.7
25°	1625.9	1629.4	1644.4	1674.2	1680.4
27.5°	1571.3	1580.2	1599.6	1630.3	1636.5
30°	1516.0	1528.2	1552.8	1584.6	1594.3
32.5°	1461.3	1472.0	1501.0	1537.0	1548.5
35°	1401.6	1413.9	1449.9	1489.6	1501.9
37.5°	1335.5	1354.9	1392.8	1438.5	1451.7
40°	1274.9	1292.5	1333.8	1384.9	1398.9
42.5°	1205.3	1227.3	1277.6	1329.4	1346.9
45°	1136.7	1164.9	1218.5	1273.2	1295.1
47.5°	1072.5	1095.4	1158.8	1220.3	1239.6
50°	1002.1	1028.4	1095.4	1160.5	1180.8
52.5°	932.7	964.3	1031.9	1100.6	1122.6
55°	861.4	898.3	970.5	1041.8	1065.5
57.5°	792.7	829.7	904.4	980.1	1004.7
60°	719.8	759.3	842.0	914.9	945.9
62.5°	649.3	688.8	776.0	855.2	884.2
65°	579.7	619.5	709.2	790.0	820.1
67.5°	507.7	550.8	646.7	725.0	754.0
70°	441.7	482.9	579.7	663.4	694.1
72.5°	365.9	415.3	513.9	596.4	625.6
75°	293.9	349.3	447.8	525.3	546.4
77.5°	227.0	282.5	380.9	439.0	452.2
80°	164.6	220.8	302.7	343.1	353.6
82.5°	106.5	164.6	219.1	246.3	249.8
85°	59.0	102.1	130.2	138.1	131.9
87.5°	21.1	38.6	37.8	30.7	24.6
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)