

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: P880939

Luminaire Tested: **24CZ2-55VHE-S-B2750-W2D-3500K**

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: P880939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55VHE-S-B2750-W2D-3500K
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

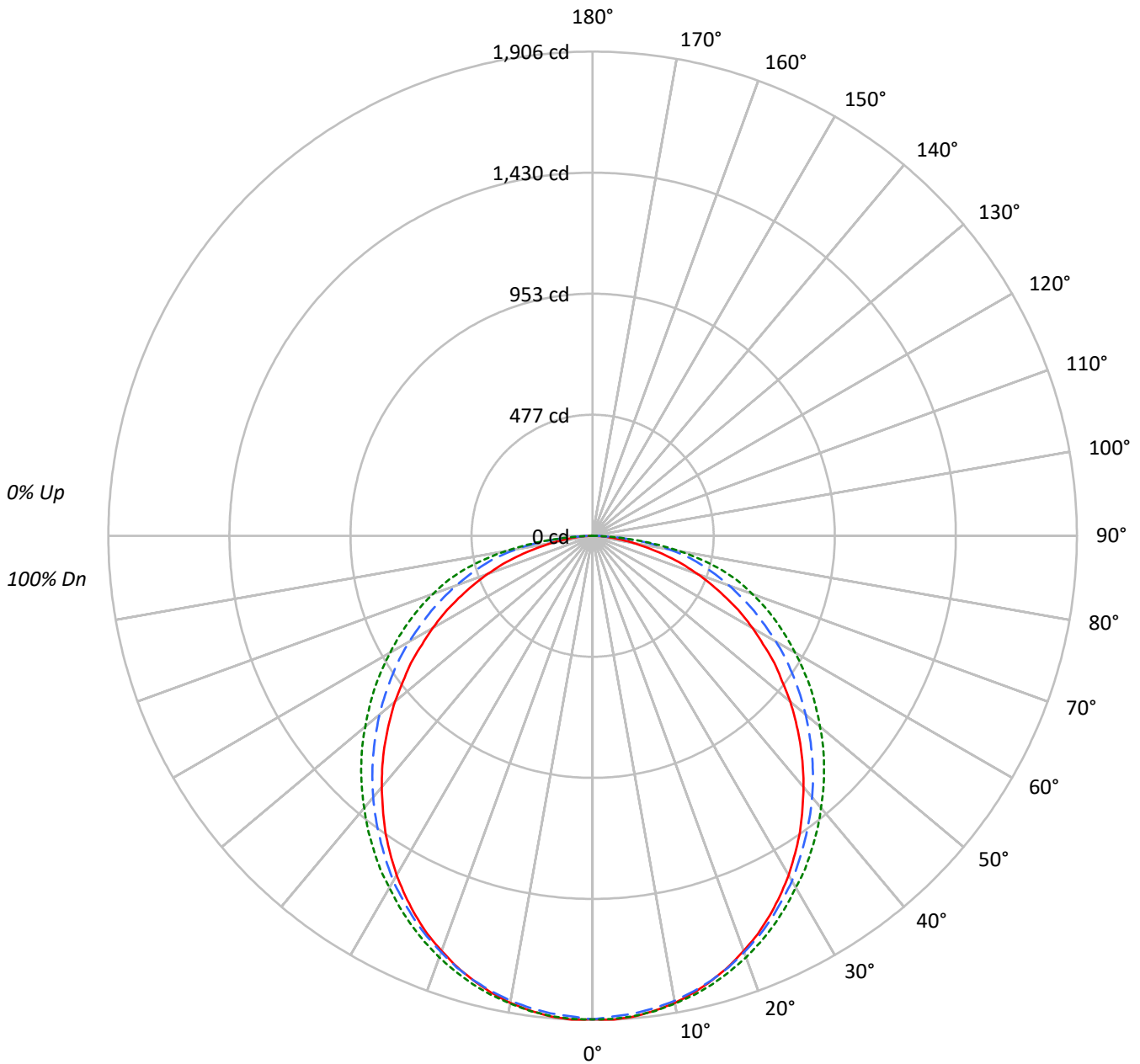
Lumens per Lamp: N/A
Luminaire Lumens: 5454.0 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 43
Input Voltage (V): NR
Input Current (A_{in}): 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	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68																			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57																			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2687	2687	2687
5°	2691	2674	2688
10°	2675	2664	2679
15°	2648	2647	2669
20°	2612	2619	2652
25°	2568	2590	2631
30°	2514	2558	2606
35°	2451	2513	2591
40°	2378	2476	2577
45°	2307	2437	2571
50°	2229	2404	2565
55°	2149	2374	2579
60°	2051	2352	2597
65°	1942	2342	2660
70°	1812	2355	2754
75°	1612	2423	2902
80°	1317	2476	2832
85°	929	2162	2206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	3.3
10°-20°	512.6	9.4
20°-30°	768.4	14.1
30°-40°	915.1	16.8
40°-50°	943.6	17.3
50°-60°	861.0	15.8
60°-70°	688.5	12.6
70°-80°	449.7	8.2
80°-90°	135.0	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°	1460.9	26.8
0°-40°	2376.1	43.6
0°-60°	4180.7	76.7
0°-90°	5454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1899	1896	1888	1899	1898	180
15°	1812	1813	1811	1827	1827	511
25°	1649	1652	1664	1688	1690	759
35°	1423	1432	1458	1495	1504	889
45°	1156	1176	1221	1272	1288	891
55°	874	898	965	1028	1048	778
65°	581	621	701	770	796	577
75°	296	345	444	516	532	314
85°	57	103	134	136	136	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1903.8	1903.8	1903.8	1903.8	1903.8
2.5°	1906.4	1903.8	1893.8	1905.6	1903.8
5°	1899.3	1895.5	1887.5	1899.3	1897.5
7.5°	1884.8	1883.0	1875.0	1888.4	1886.6
10°	1866.9	1865.2	1858.9	1872.3	1869.6
12.5°	1841.9	1841.0	1836.6	1852.6	1850.9
15°	1812.2	1813.1	1811.4	1826.7	1826.7
17.5°	1778.3	1777.4	1781.0	1799.7	1797.9
20°	1738.8	1739.7	1744.1	1765.8	1765.8
22.5°	1697.7	1696.8	1706.6	1728.1	1729.8
25°	1649.2	1651.9	1663.5	1687.8	1689.6
27.5°	1597.2	1601.9	1616.2	1643.9	1646.6
30°	1542.7	1548.1	1569.5	1595.4	1599.0
32.5°	1482.7	1494.3	1513.9	1547.2	1556.1
35°	1422.6	1432.4	1458.5	1495.2	1504.1
37.5°	1356.3	1372.4	1402.0	1442.3	1454.1
40°	1290.9	1307.1	1343.8	1386.0	1398.5
42.5°	1224.5	1241.7	1283.7	1331.3	1344.7
45°	1155.7	1176.3	1221.0	1272.1	1288.2
47.5°	1085.0	1109.1	1157.5	1212.9	1231.0
50°	1015.1	1039.2	1094.8	1152.0	1168.2
52.5°	939.8	970.2	1029.4	1091.2	1107.3
55°	873.5	898.5	964.8	1028.5	1048.1
57.5°	795.6	829.5	900.3	964.8	983.6
60°	726.6	757.9	833.1	898.5	920.0
62.5°	656.7	688.9	764.1	838.5	858.3
65°	581.4	620.8	701.4	770.4	796.5
67.5°	509.8	550.9	633.5	706.7	733.7
70°	439.0	481.0	570.7	646.0	667.4
72.5°	369.1	413.1	506.2	579.7	604.7
75°	295.6	345.0	444.3	516.0	532.1
77.5°	226.6	281.3	381.6	430.0	441.7
80°	162.1	222.2	304.6	339.6	348.5
82.5°	106.5	164.8	227.5	246.3	243.6
85°	57.4	103.0	133.5	136.2	136.2
87.5°	22.3	41.3	42.2	32.2	30.4
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)