

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: P880937

Luminaire Tested: **24CZ2-55VHE-S-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: P880937
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-2700K
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

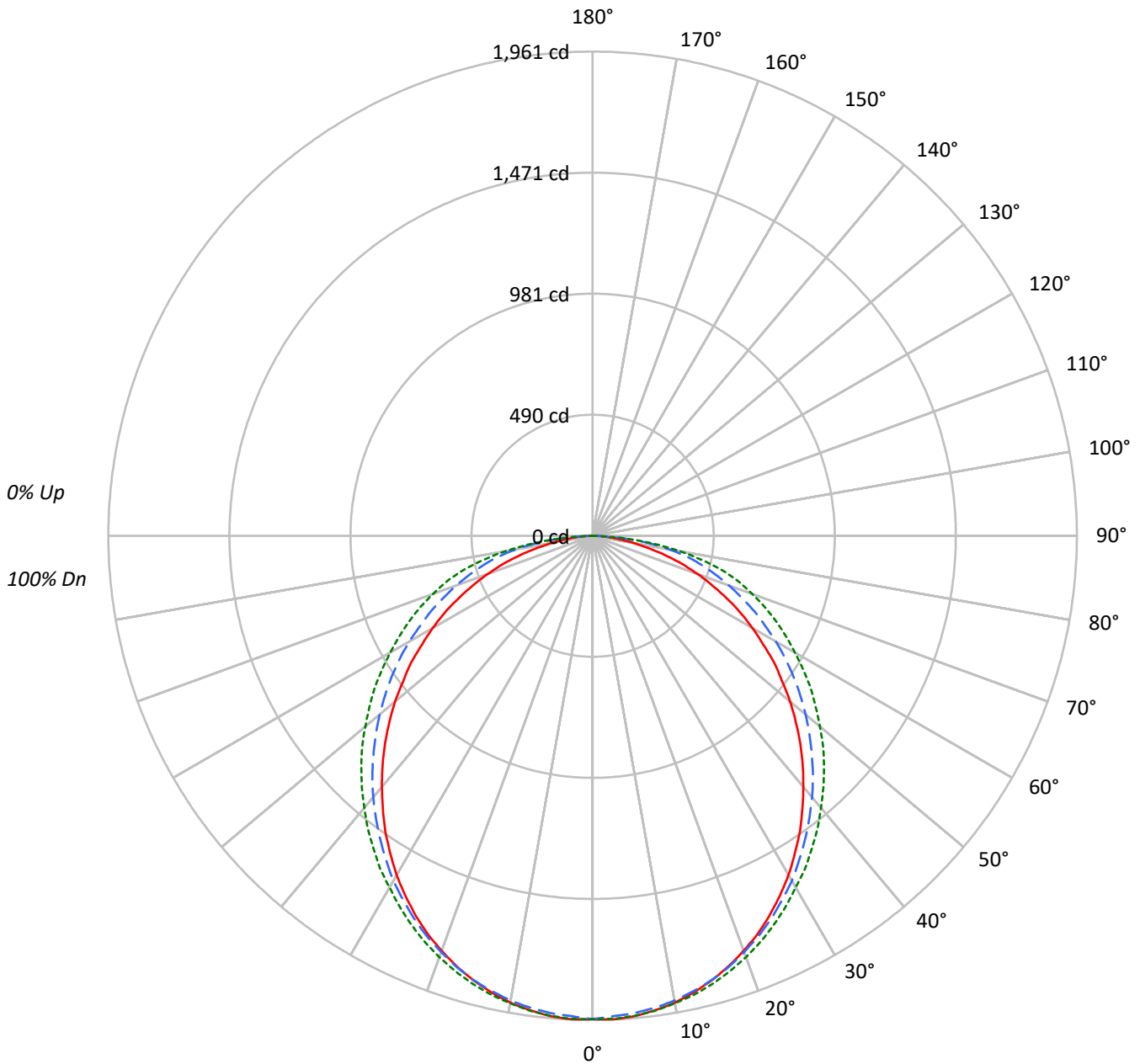
Lumens per Lamp: N/A
Luminaire Lumens: 5609.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 43
Input Voltage (V): NR
Input Current (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	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°	2763	2763	2763
5°	2767	2750	2765
10°	2752	2740	2756
15°	2723	2722	2745
20°	2686	2694	2727
25°	2641	2664	2706
30°	2586	2630	2680
35°	2521	2584	2665
40°	2446	2546	2650
45°	2372	2506	2644
50°	2292	2472	2638
55°	2210	2442	2652
60°	2109	2418	2671
65°	1997	2409	2735
70°	1863	2422	2832
75°	1658	2492	2984
80°	1355	2546	2913
85°	955	2223	2269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	3.3
10°-20°	527.2	9.4
20°-30°	790.2	14.1
30°-40°	941.1	16.8
40°-50°	970.4	17.3
50°-60°	885.5	15.8
60°-70°	708.1	12.6
70°-80°	462.5	8.2
80°-90°	138.9	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°	1502.5	26.8
0°-40°	2443.6	43.6
0°-60°	4299.5	76.7
0°-90°	5609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1953	1949	1941	1953	1951	185
15°	1864	1865	1863	1879	1879	525
25°	1696	1699	1711	1736	1738	781
35°	1463	1473	1500	1538	1547	914
45°	1189	1210	1256	1308	1325	917
55°	898	924	992	1058	1078	800
65°	598	638	721	792	819	593
75°	304	355	457	531	547	323
85°	59	106	137	140	140	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1957.9	1957.9	1957.9	1957.9	1957.9
2.5°	1960.6	1957.9	1947.6	1959.7	1957.9
5°	1953.3	1949.4	1941.1	1953.3	1951.4
7.5°	1938.4	1936.5	1928.3	1942.1	1940.2
10°	1920.0	1918.2	1911.7	1925.5	1922.8
12.5°	1894.3	1893.3	1888.8	1905.3	1903.5
15°	1863.8	1864.7	1862.8	1878.6	1878.6
17.5°	1828.8	1827.9	1831.6	1850.9	1849.0
20°	1788.2	1789.1	1793.7	1816.0	1816.0
22.5°	1745.9	1745.0	1755.1	1777.2	1779.0
25°	1696.1	1698.9	1710.8	1735.8	1737.7
27.5°	1642.6	1647.4	1662.1	1690.6	1693.4
30°	1586.6	1592.1	1614.1	1640.8	1644.5
32.5°	1524.8	1536.7	1557.0	1591.1	1600.3
35°	1463.0	1473.1	1500.0	1537.7	1546.8
37.5°	1394.8	1411.4	1441.9	1483.2	1495.4
40°	1327.5	1344.3	1382.0	1425.3	1438.2
42.5°	1259.4	1277.0	1320.2	1369.1	1382.9
45°	1188.6	1209.7	1255.7	1308.2	1324.8
47.5°	1115.8	1140.6	1190.4	1247.4	1266.0
50°	1043.9	1068.7	1125.9	1184.7	1201.4
52.5°	966.5	997.8	1058.6	1122.2	1138.8
55°	898.3	924.1	992.3	1057.7	1077.9
57.5°	818.2	853.1	925.9	992.3	1011.6
60°	747.2	779.4	856.8	924.1	946.1
62.5°	675.4	708.4	785.8	862.3	882.7
65°	598.0	638.4	721.3	792.3	819.1
67.5°	524.3	566.5	651.5	726.8	754.6
70°	451.5	494.7	586.9	664.3	686.4
72.5°	379.6	424.8	520.6	596.1	621.9
75°	304.0	354.8	457.0	530.7	547.2
77.5°	233.1	289.3	392.5	442.3	454.2
80°	166.7	228.5	313.2	349.3	358.4
82.5°	109.6	169.5	234.0	253.3	250.5
85°	59.0	105.9	137.3	140.1	140.1
87.5°	23.0	42.5	43.4	33.1	31.2
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)