

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: P881239

Luminaire Tested: **24CZ2-55VHE-UNV-B35**

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: P881239
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-UNV-B35
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

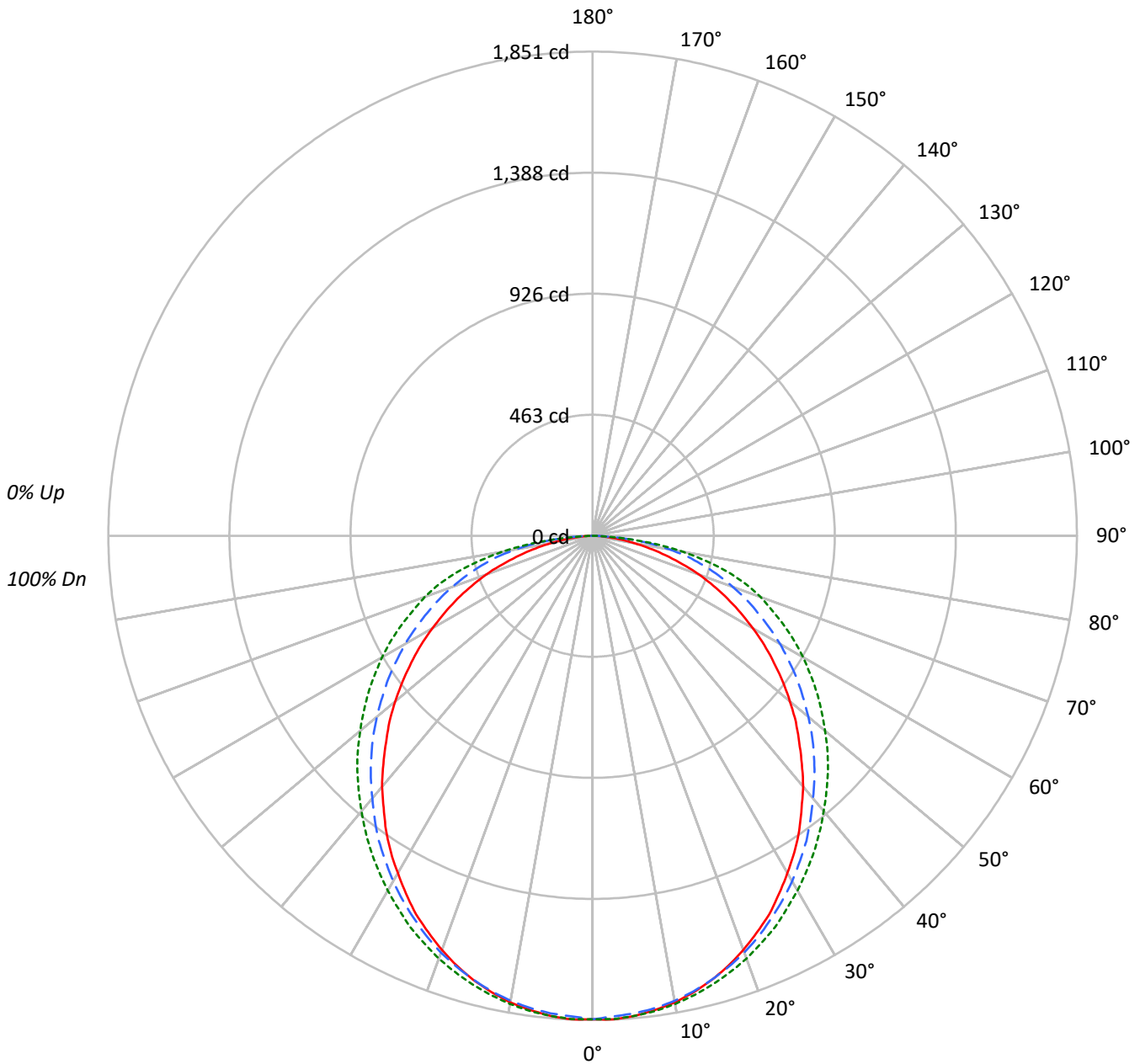
Lumens per Lamp: N/A
Luminaire Lumens: 5349.0 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2609	2609	2609
5°	2610	2597	2610
10°	2596	2587	2604
15°	2569	2568	2593
20°	2531	2546	2583
25°	2487	2515	2570
30°	2426	2486	2552
35°	2372	2454	2541
40°	2307	2414	2531
45°	2228	2389	2539
50°	2161	2362	2546
55°	2082	2345	2575
60°	1995	2334	2622
65°	1902	2326	2690
70°	1790	2350	2813
75°	1574	2398	2926
80°	1314	2416	2823
85°	939	2071	2099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	3.3
10°-20°	497.7	9.3
20°-30°	746.7	14.0
30°-40°	891.4	16.7
40°-50°	923.4	17.3
50°-60°	850.1	15.9
60°-70°	685.7	12.8
70°-80°	448.0	8.4
80°-90°	131.4	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°	1419.1	26.5
0°-40°	2310.5	43.2
0°-60°	4084.0	76.3
0°-90°	5349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1848	1848	1848	1848	1848	
5°	1842	1841	1833	1843	1842	175
15°	1758	1758	1758	1775	1775	496
25°	1597	1600	1615	1644	1650	734
35°	1377	1389	1424	1463	1475	860
45°	1116	1144	1197	1250	1272	863
55°	846	882	953	1023	1046	757
65°	569	608	697	776	806	563
75°	289	343	440	516	537	308
85°	58	100	128	136	130	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1848.4	1848.4	1848.4	1848.4	1848.4
2.5°	1851.0	1848.4	1838.9	1850.1	1849.2
5°	1842.3	1840.6	1832.8	1843.2	1842.3
7.5°	1828.5	1827.7	1821.6	1832.8	1832.8
10°	1811.3	1809.6	1805.2	1818.2	1817.3
12.5°	1787.1	1786.3	1783.7	1799.2	1798.3
15°	1758.5	1758.5	1757.6	1775.0	1775.0
17.5°	1724.0	1724.8	1728.3	1748.1	1749.0
20°	1685.1	1688.6	1695.5	1717.9	1719.7
22.5°	1641.0	1647.9	1657.4	1682.6	1685.1
25°	1597.0	1600.4	1615.1	1644.4	1650.5
27.5°	1543.3	1552.1	1571.1	1601.3	1607.3
30°	1488.9	1501.0	1525.2	1556.4	1565.9
32.5°	1435.3	1445.8	1474.3	1509.7	1520.9
35°	1376.6	1388.7	1424.1	1463.1	1475.1
37.5°	1311.7	1330.7	1368.0	1412.9	1425.8
40°	1252.2	1269.5	1310.0	1360.2	1374.0
42.5°	1183.9	1205.4	1254.8	1305.7	1323.0
45°	1116.4	1144.2	1196.8	1250.5	1272.1
47.5°	1053.4	1075.9	1138.2	1198.5	1217.5
50°	984.2	1010.1	1075.9	1139.9	1159.7
52.5°	916.1	947.1	1013.6	1081.0	1102.6
55°	846.0	882.3	953.2	1023.2	1046.5
57.5°	778.6	815.0	888.3	962.7	986.8
60°	706.9	745.8	827.0	898.6	929.0
62.5°	637.8	676.6	762.2	840.0	868.5
65°	569.4	608.4	696.6	776.0	805.5
67.5°	498.7	540.9	635.2	712.1	740.6
70°	433.8	474.3	569.4	651.6	681.8
72.5°	359.4	407.9	504.7	585.8	614.5
75°	288.7	343.0	439.8	515.9	536.6
77.5°	222.9	277.5	374.1	431.2	444.1
80°	161.7	216.9	297.3	337.0	347.3
82.5°	104.6	161.7	215.2	241.9	245.4
85°	58.0	100.3	127.9	135.6	129.6
87.5°	20.7	38.0	37.1	30.2	24.2
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)