

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: P881271

Luminaire Tested: **24CZ2-65VHE-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: P881271
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: 24CZ2-65VHE-UNV-B50
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

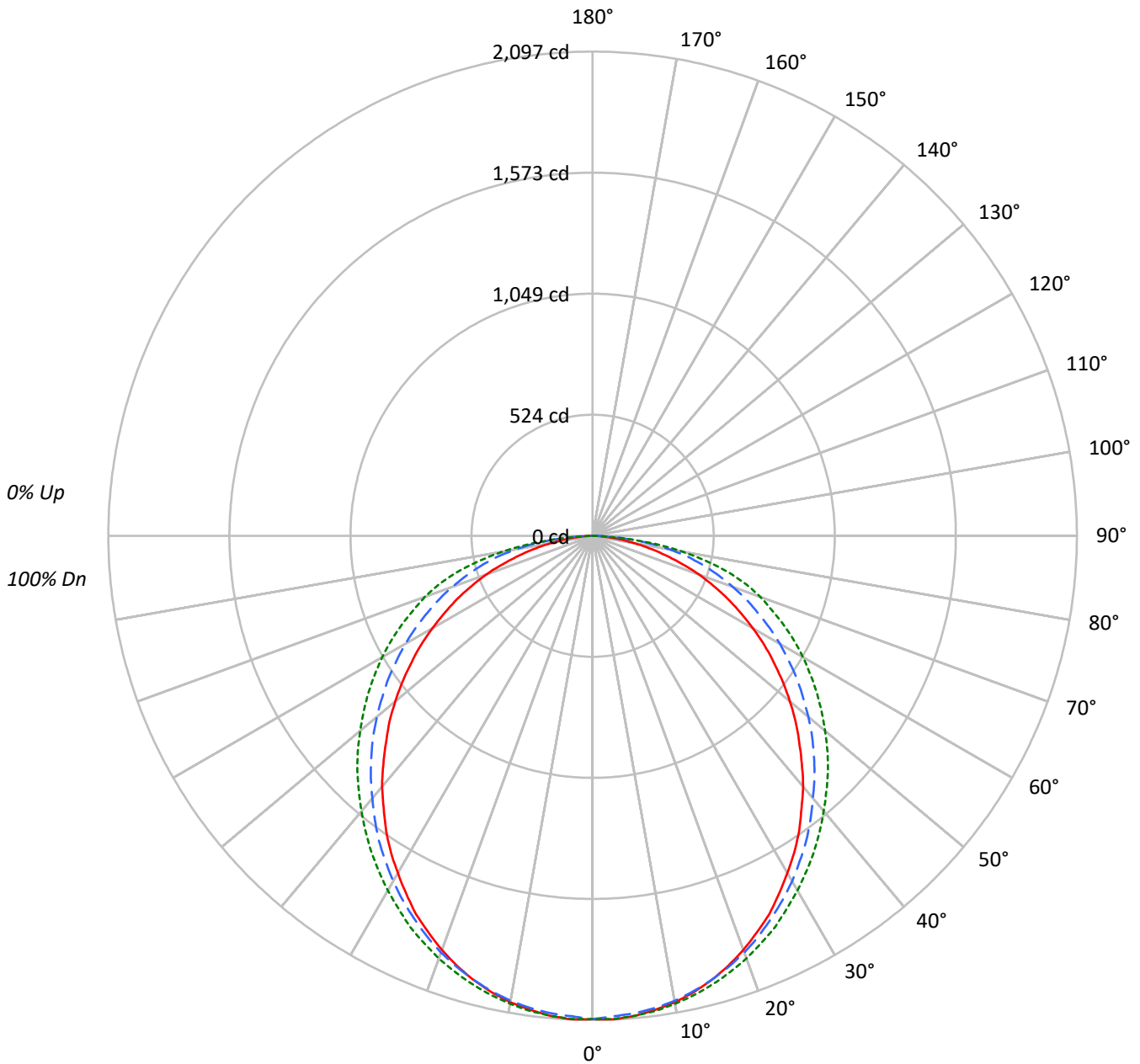
Lumens per Lamp: N/A
Luminaire Lumens: 6059.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 51
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°	2955	2955	2955
5°	2957	2941	2957
10°	2940	2931	2950
15°	2910	2909	2938
20°	2867	2884	2926
25°	2817	2849	2911
30°	2749	2815	2891
35°	2687	2779	2879
40°	2613	2734	2867
45°	2524	2706	2876
50°	2448	2676	2884
55°	2358	2657	2917
60°	2260	2644	2970
65°	2154	2635	3047
70°	2028	2662	3186
75°	1783	2717	3315
80°	1488	2737	3198
85°	1064	2345	2377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	3.3
10°-20°	563.8	9.3
20°-30°	845.8	14.0
30°-40°	1009.8	16.7
40°-50°	1045.9	17.3
50°-60°	962.9	15.9
60°-70°	776.7	12.8
70°-80°	507.5	8.4
80°-90°	148.8	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°	1607.5	26.5
0°-40°	2617.2	43.2
0°-60°	4626.0	76.3
0°-90°	6059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2094	2094	2094	2094	2094	
5°	2087	2085	2076	2088	2087	198
15°	1992	1992	1991	2011	2011	561
25°	1809	1813	1830	1863	1870	832
35°	1559	1573	1613	1657	1671	974
45°	1265	1296	1356	1416	1441	978
55°	958	999	1080	1159	1185	858
65°	645	689	789	879	912	638
75°	327	389	498	584	608	349
85°	66	114	145	154	147	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2093.7	2093.7	2093.7	2093.7	2093.7
2.5°	2096.7	2093.7	2083.0	2095.7	2094.7
5°	2086.9	2084.9	2076.1	2087.9	2086.9
7.5°	2071.2	2070.3	2063.4	2076.1	2076.1
10°	2051.7	2049.7	2044.9	2059.5	2058.5
12.5°	2024.3	2023.4	2020.4	2038.0	2037.0
15°	1991.9	1991.9	1990.9	2010.7	2010.7
17.5°	1952.8	1953.8	1957.7	1980.2	1981.1
20°	1908.8	1912.7	1920.5	1946.0	1947.9
22.5°	1858.8	1866.6	1877.3	1905.9	1908.8
25°	1808.9	1812.8	1829.5	1862.7	1869.5
27.5°	1748.2	1758.1	1779.6	1813.8	1820.7
30°	1686.6	1700.3	1727.6	1763.0	1773.8
32.5°	1625.8	1637.7	1670.0	1710.0	1722.7
35°	1559.3	1573.0	1613.1	1657.3	1670.9
37.5°	1485.9	1507.4	1549.6	1600.4	1615.0
40°	1418.4	1438.0	1483.9	1540.8	1556.4
42.5°	1341.0	1365.5	1421.4	1479.0	1498.6
45°	1264.6	1296.1	1355.7	1416.5	1440.9
47.5°	1193.3	1218.7	1289.2	1357.6	1379.1
50°	1114.9	1144.2	1218.7	1291.2	1313.7
52.5°	1037.7	1072.9	1148.1	1224.5	1249.0
55°	958.3	999.4	1079.7	1159.1	1185.4
57.5°	881.9	923.1	1006.2	1090.4	1117.8
60°	800.8	844.8	936.8	1017.9	1052.3
62.5°	722.4	766.4	863.3	951.5	983.7
65°	645.0	689.2	789.1	879.0	912.4
67.5°	564.9	612.8	719.5	806.6	838.9
70°	491.4	537.3	645.0	738.0	772.2
72.5°	407.1	462.1	571.7	663.6	696.0
75°	327.0	388.6	498.2	584.4	607.9
77.5°	252.5	314.3	423.7	488.4	503.1
80°	183.1	245.7	336.8	381.7	393.5
82.5°	118.4	183.1	243.7	274.0	277.9
85°	65.7	113.6	144.8	153.6	146.8
87.5°	23.5	43.0	42.0	34.2	27.4
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)