

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: P881265

Luminaire Tested: **24CZ2-65VHE-S-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: P881265
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: 24CZ2-65VHE-S-UNV-B50
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

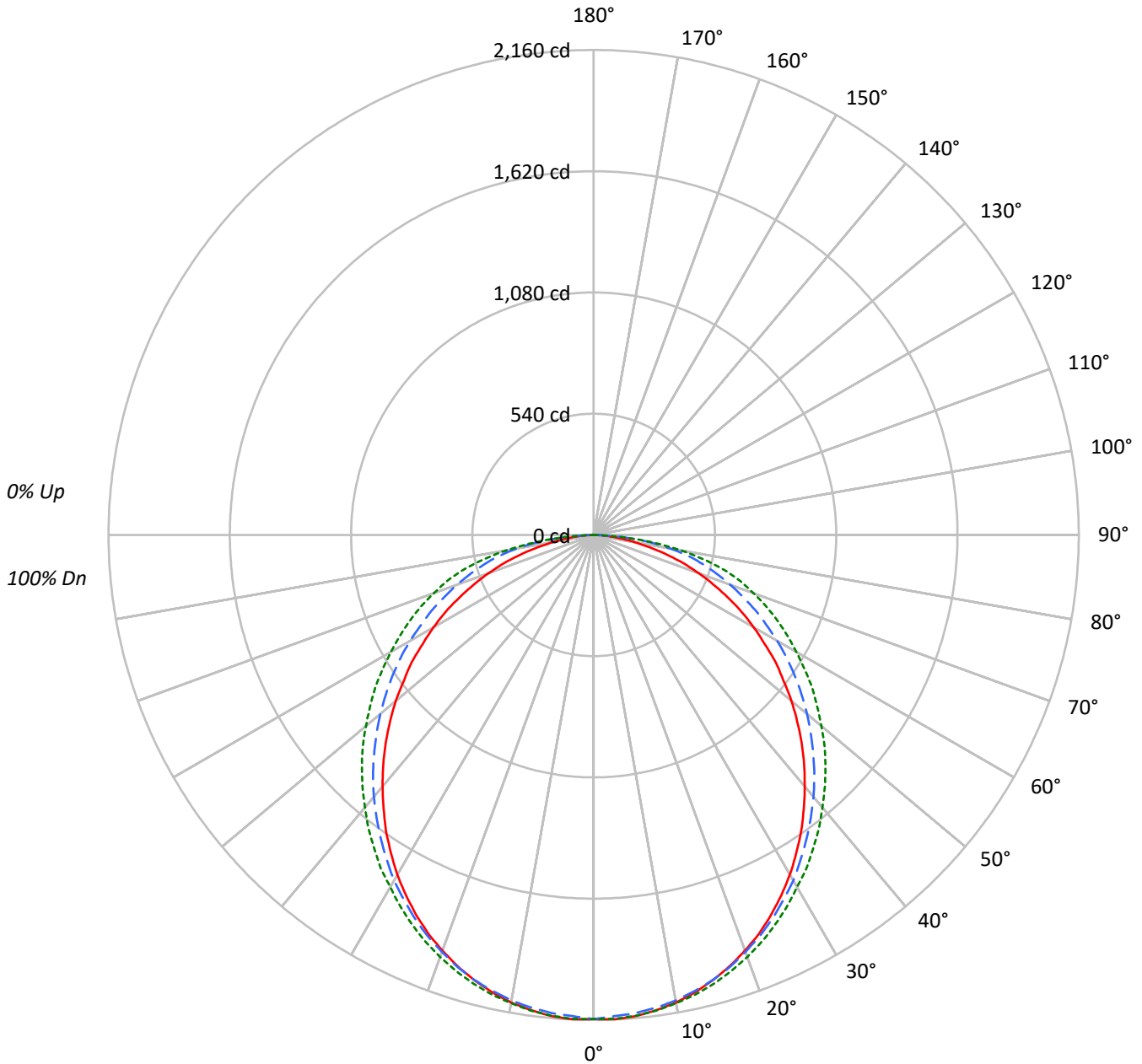
Lumens per Lamp: N/A
Luminaire Lumens: 6178.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3044	3044	3044
5°	3048	3029	3045
10°	3031	3018	3035
15°	2999	2998	3023
20°	2958	2967	3004
25°	2909	2934	2980
30°	2848	2897	2952
35°	2776	2846	2936
40°	2694	2804	2919
45°	2613	2761	2912
50°	2525	2723	2906
55°	2435	2689	2921
60°	2323	2664	2942
65°	2199	2653	3013
70°	2052	2668	3120
75°	1826	2744	3287
80°	1492	2804	3209
85°	1053	2448	2499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	3.3
10°-20°	580.6	9.4
20°-30°	870.4	14.1
30°-40°	1036.6	16.8
40°-50°	1068.9	17.3
50°-60°	975.3	15.8
60°-70°	779.9	12.6
70°-80°	509.4	8.2
80°-90°	153.0	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°	1654.9	26.8
0°-40°	2691.5	43.6
0°-60°	4735.7	76.7
0°-90°	6178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2156	2156	2156	2156	2156	
5°	2151	2147	2138	2151	2149	204
15°	2053	2054	2052	2069	2069	579
25°	1868	1871	1884	1912	1914	860
35°	1611	1623	1652	1694	1704	1007
45°	1309	1332	1383	1441	1459	1010
55°	990	1018	1093	1165	1187	881
65°	659	703	794	873	902	653
75°	335	391	503	584	603	356
85°	65	117	151	154	154	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2156.5	2156.5	2156.5	2156.5	2156.5
2.5°	2159.5	2156.5	2145.1	2158.5	2156.5
5°	2151.4	2147.2	2138.1	2151.4	2149.4
7.5°	2135.0	2133.0	2123.9	2139.1	2137.0
10°	2114.8	2112.7	2105.7	2120.8	2117.8
12.5°	2086.4	2085.4	2080.4	2098.6	2096.6
15°	2052.8	2053.8	2051.8	2069.2	2069.2
17.5°	2014.3	2013.3	2017.4	2038.6	2036.6
20°	1969.6	1970.6	1975.7	2000.2	2000.2
22.5°	1923.0	1922.0	1933.2	1957.5	1959.5
25°	1868.2	1871.2	1884.4	1911.9	1913.9
27.5°	1809.2	1814.5	1830.7	1862.1	1865.1
30°	1747.5	1753.6	1777.9	1807.2	1811.3
32.5°	1679.5	1692.6	1714.9	1752.6	1762.7
35°	1611.4	1622.6	1652.1	1693.6	1703.8
37.5°	1536.3	1554.5	1588.2	1633.7	1647.1
40°	1462.2	1480.6	1522.2	1569.9	1584.1
42.5°	1387.1	1406.5	1454.1	1508.0	1523.2
45°	1309.2	1332.4	1383.1	1441.0	1459.2
47.5°	1229.0	1256.3	1311.2	1373.9	1394.4
50°	1149.8	1177.1	1240.1	1304.9	1323.3
52.5°	1064.6	1099.0	1166.0	1236.1	1254.3
55°	989.5	1017.8	1092.9	1165.0	1187.3
57.5°	901.2	939.7	1019.8	1092.9	1114.2
60°	823.0	858.5	943.7	1017.8	1042.1
62.5°	743.9	780.3	865.5	949.8	972.2
65°	658.6	703.2	794.5	872.6	902.2
67.5°	577.4	624.0	717.5	800.6	831.1
70°	497.3	544.8	646.5	731.7	756.0
72.5°	418.1	467.9	573.4	656.6	684.9
75°	334.9	390.8	503.3	584.5	602.7
77.5°	256.7	318.7	432.3	487.1	500.3
80°	183.6	251.7	345.0	384.7	394.8
82.5°	120.7	186.7	257.7	279.0	276.0
85°	65.0	116.6	151.2	154.3	154.3
87.5°	25.3	46.8	47.8	36.4	34.4
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)