

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: P881270

Luminaire Tested: **24CZ2-65VHE-UNV-B40**

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: P881270
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-B40
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

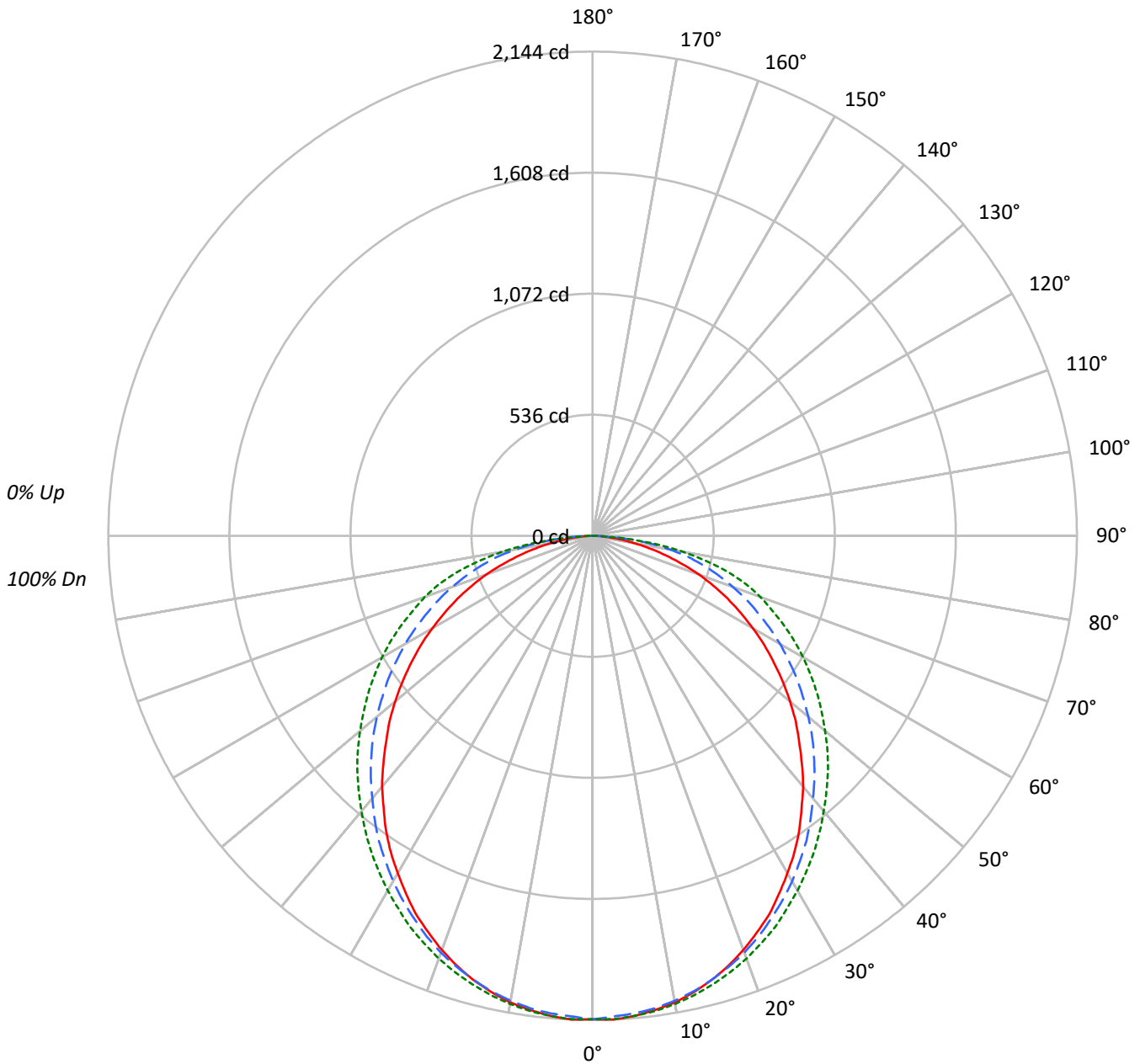
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6196.0 lumens
Efficiency: N/A
Efficacy: 121.5 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°	3022	3022	3022
5°	3023	3008	3023
10°	3007	2997	3017
15°	2976	2975	3004
20°	2932	2950	2992
25°	2881	2913	2977
30°	2811	2879	2956
35°	2747	2842	2944
40°	2672	2796	2932
45°	2581	2767	2941
50°	2503	2736	2950
55°	2411	2717	2983
60°	2311	2704	3037
65°	2203	2695	3116
70°	2074	2722	3259
75°	1823	2778	3390
80°	1522	2799	3270
85°	1088	2398	2431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	3.3
10°-20°	576.5	9.3
20°-30°	864.9	14.0
30°-40°	1032.6	16.7
40°-50°	1069.6	17.3
50°-60°	984.7	15.9
60°-70°	794.3	12.8
70°-80°	519.0	8.4
80°-90°	152.1	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°	1643.8	26.5
0°-40°	2676.4	43.2
0°-60°	4730.6	76.3
0°-90°	6196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6196.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2141	2141	2141	2141	2141	
5°	2134	2132	2123	2135	2134	203
15°	2037	2037	2036	2056	2056	574
25°	1850	1854	1871	1905	1912	851
35°	1595	1609	1650	1695	1709	996
45°	1293	1325	1386	1448	1474	1000
55°	980	1022	1104	1185	1212	877
65°	660	705	807	899	933	652
75°	334	397	510	598	622	357
85°	67	116	148	157	150	83
90°	0	0	0	0	0	



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CATALOG NUMBER: 24CZ2-65VHE-UNV-B40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2141.1	2141.1	2141.1	2141.1	2141.1
2.5°	2144.1	2141.1	2130.1	2143.1	2142.1
5°	2134.1	2132.1	2123.1	2135.1	2134.1
7.5°	2118.1	2117.1	2110.1	2123.1	2123.1
10°	2098.1	2096.1	2091.1	2106.1	2105.1
12.5°	2070.1	2069.1	2066.1	2084.1	2083.1
15°	2036.9	2036.9	2035.9	2056.1	2056.1
17.5°	1996.9	1997.9	2001.9	2024.9	2025.9
20°	1952.0	1956.0	1964.0	1990.0	1992.0
22.5°	1900.8	1908.8	1919.8	1949.0	1952.0
25°	1849.8	1853.8	1870.8	1904.8	1911.8
27.5°	1787.7	1797.9	1819.9	1854.8	1861.8
30°	1724.7	1738.7	1766.7	1802.9	1813.9
32.5°	1662.6	1674.8	1707.7	1748.7	1761.7
35°	1594.6	1608.6	1649.6	1694.7	1708.7
37.5°	1519.4	1541.4	1584.6	1636.6	1651.6
40°	1450.5	1470.5	1517.5	1575.6	1591.6
42.5°	1371.3	1396.3	1453.5	1512.5	1532.4
45°	1293.2	1325.4	1386.3	1448.5	1473.5
47.5°	1220.2	1246.2	1318.4	1388.3	1410.3
50°	1140.1	1170.1	1246.2	1320.4	1343.4
52.5°	1061.1	1097.1	1174.1	1252.2	1277.2
55°	980.0	1022.0	1104.1	1185.3	1212.2
57.5°	901.8	944.0	1029.0	1115.1	1143.1
60°	818.9	863.9	958.0	1040.9	1076.1
62.5°	738.7	783.7	882.8	973.0	1006.0
65°	659.6	704.8	806.9	898.8	933.0
67.5°	577.6	626.6	735.7	824.9	857.9
70°	502.5	549.5	659.6	754.7	789.7
72.5°	416.3	472.5	584.6	678.6	711.8
75°	334.4	397.4	509.5	597.6	621.6
77.5°	258.2	321.4	433.3	499.5	514.5
80°	187.3	251.2	344.4	390.4	402.3
82.5°	121.1	187.3	249.2	280.2	284.2
85°	67.2	116.1	148.1	157.1	150.1
87.5°	24.0	44.0	43.0	35.0	28.0
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)