

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: P881280

Luminaire Tested: **24CZ2-70VHE-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: P881280
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: 24CZ2-70VHE-S-UNV-B50
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

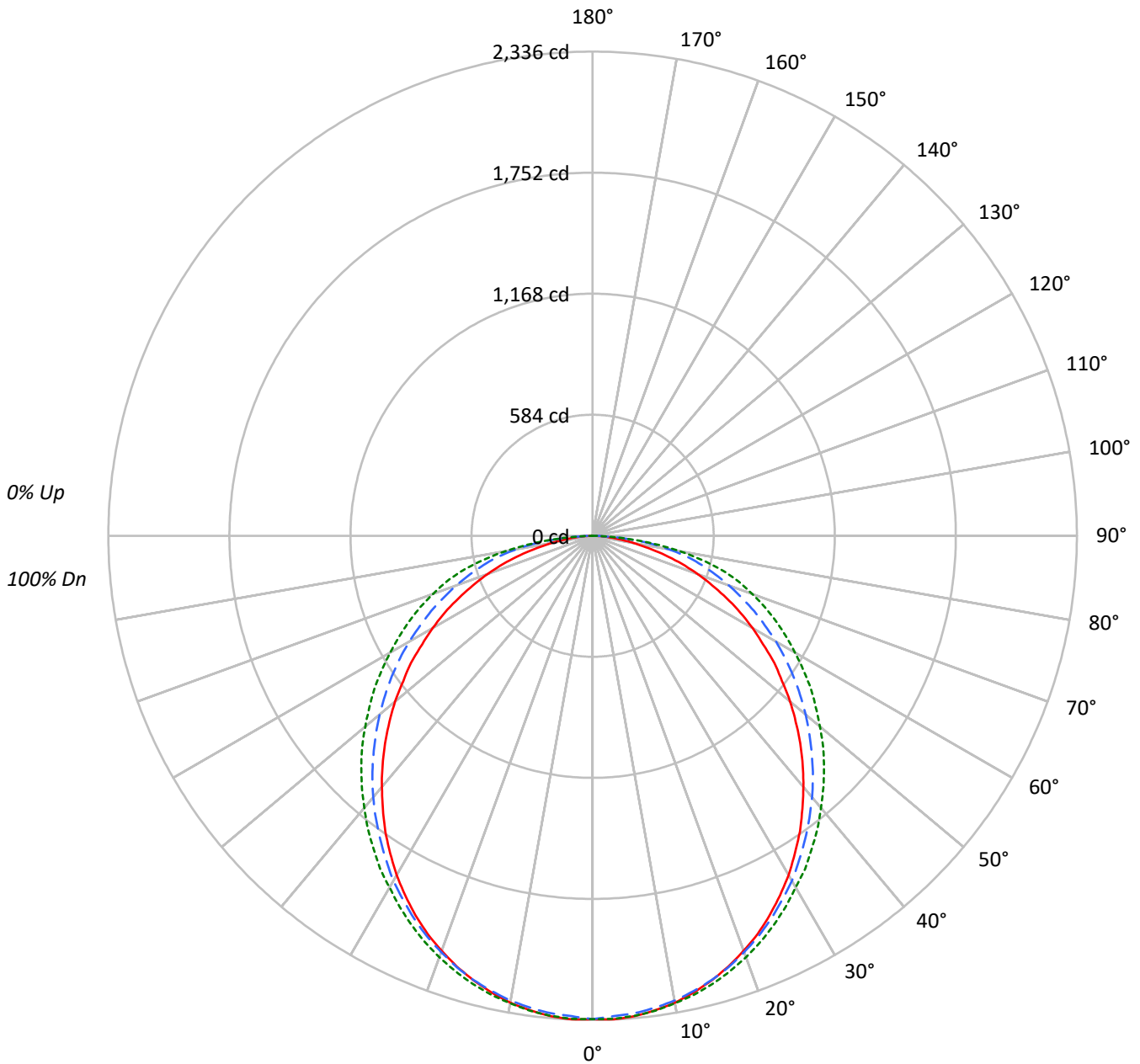
Lumens per Lamp: N/A
Luminaire Lumens: 6682.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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°	3292	3292	3292
5°	3297	3276	3293
10°	3278	3264	3283
15°	3244	3243	3270
20°	3200	3209	3249
25°	3147	3174	3224
30°	3080	3134	3193
35°	3003	3079	3175
40°	2914	3033	3157
45°	2826	2986	3150
50°	2731	2945	3143
55°	2633	2909	3160
60°	2513	2881	3181
65°	2379	2870	3259
70°	2219	2885	3374
75°	1975	2969	3555
80°	1614	3033	3470
85°	1138	2649	2703



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	3.3
10°-20°	628.0	9.4
20°-30°	941.4	14.1
30°-40°	1121.2	16.8
40°-50°	1156.1	17.3
50°-60°	1054.9	15.8
60°-70°	843.5	12.6
70°-80°	551.0	8.2
80°-90°	165.4	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°	1789.9	26.8
0°-40°	2911.1	43.6
0°-60°	5122.0	76.7
0°-90°	6682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2332	2332	2332	2332	2332	
5°	2327	2322	2312	2327	2325	221
15°	2220	2221	2219	2238	2238	626
25°	2021	2024	2038	2068	2070	930
35°	1743	1755	1787	1832	1843	1089
45°	1416	1441	1496	1558	1578	1092
55°	1070	1101	1182	1260	1284	953
65°	712	760	859	944	976	706
75°	362	423	544	632	652	385
85°	70	126	164	167	167	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2332.4	2332.4	2332.4	2332.4	2332.4
2.5°	2335.7	2332.4	2320.1	2334.6	2332.4
5°	2326.9	2322.3	2312.5	2326.9	2324.7
7.5°	2309.2	2307.0	2297.2	2313.6	2311.4
10°	2287.3	2285.1	2277.4	2293.9	2290.6
12.5°	2256.6	2255.5	2250.1	2269.8	2267.6
15°	2220.3	2221.4	2219.2	2238.0	2238.0
17.5°	2178.7	2177.6	2182.0	2205.0	2202.8
20°	2130.3	2131.4	2136.9	2163.4	2163.4
22.5°	2079.9	2078.8	2090.9	2117.1	2119.3
25°	2020.6	2023.9	2038.1	2067.9	2070.1
27.5°	1956.8	1962.5	1980.1	2014.0	2017.3
30°	1890.1	1896.6	1922.9	1954.7	1959.0
32.5°	1816.5	1830.7	1854.8	1895.5	1906.5
35°	1742.9	1754.9	1786.9	1831.8	1842.8
37.5°	1661.7	1681.4	1717.7	1767.0	1781.4
40°	1581.5	1601.4	1646.3	1698.0	1713.3
42.5°	1500.3	1521.3	1572.7	1631.0	1647.4
45°	1416.0	1441.1	1495.9	1558.5	1578.2
47.5°	1329.2	1358.8	1418.1	1486.0	1508.1
50°	1243.6	1273.2	1341.3	1411.4	1431.3
52.5°	1151.4	1188.6	1261.1	1336.9	1356.6
55°	1070.2	1100.8	1182.1	1260.0	1284.1
57.5°	974.7	1016.3	1103.0	1182.1	1205.1
60°	890.2	928.5	1020.7	1100.8	1127.1
62.5°	804.5	844.0	936.2	1027.3	1051.6
65°	712.4	760.5	859.3	943.8	975.8
67.5°	624.5	674.9	776.1	865.9	898.9
70°	537.8	589.3	699.2	791.4	817.7
72.5°	452.2	506.1	620.2	710.2	740.8
75°	362.2	422.6	544.4	632.2	651.9
77.5°	277.7	344.7	467.5	526.9	541.1
80°	198.6	272.2	373.2	416.1	427.0
82.5°	130.5	201.9	278.8	301.8	298.5
85°	70.3	126.1	163.6	166.9	166.9
87.5°	27.4	50.6	51.7	39.4	37.2
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)