

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: P881012

Luminaire Tested: **24CZ2-70VHE-S-B2750-W2D-2700K**

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: P881012
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-B2750-W2D-2700K
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

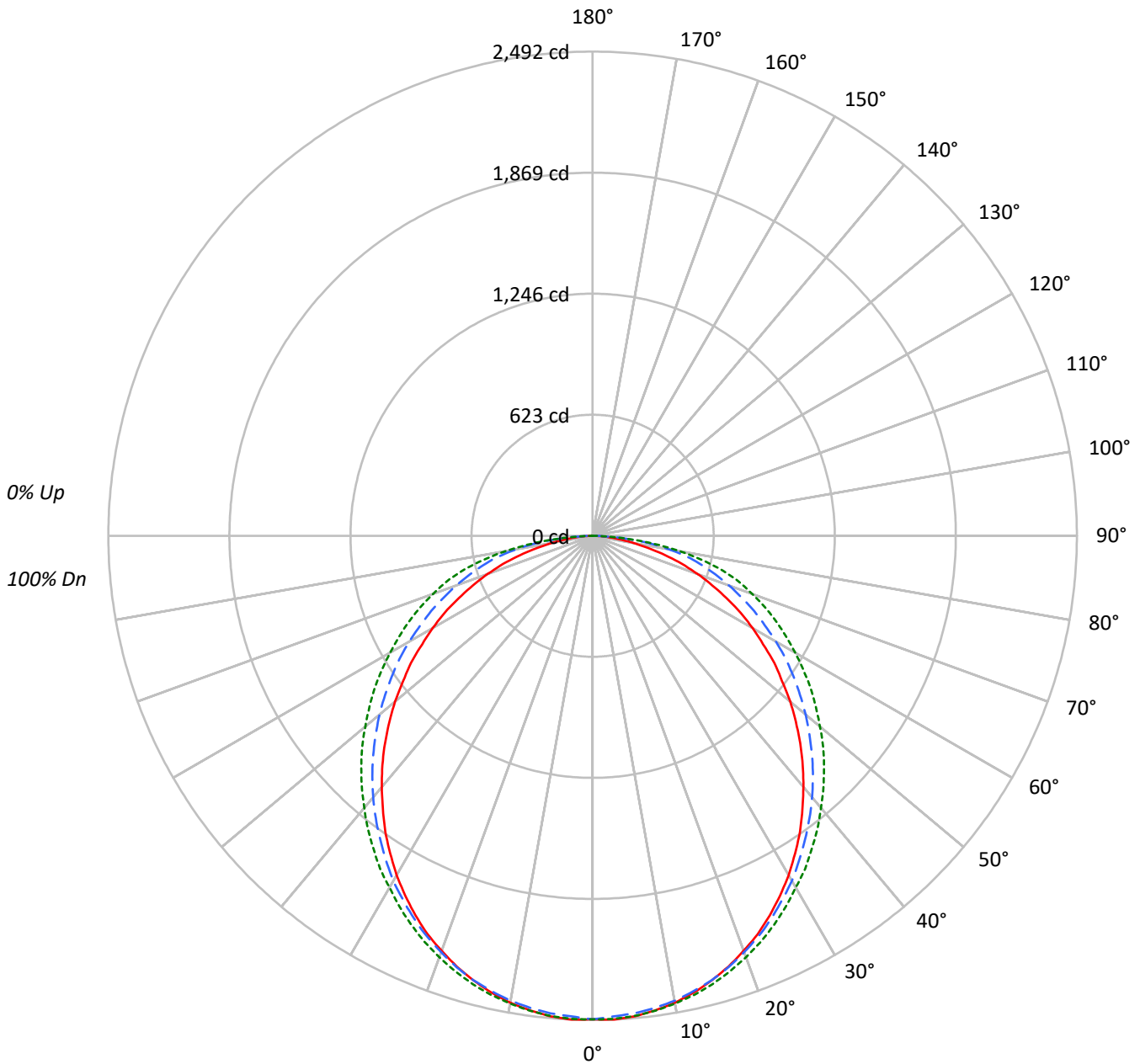
Lumens per Lamp: N/A
Luminaire Lumens: 7130.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	3513	3513	3513
5°	3518	3496	3514
10°	3498	3483	3503
15°	3462	3460	3489
20°	3414	3425	3467
25°	3357	3387	3440
30°	3287	3344	3407
35°	3204	3285	3388
40°	3109	3236	3368
45°	3016	3186	3361
50°	2914	3142	3353
55°	2810	3104	3372
60°	2681	3074	3395
65°	2538	3062	3477
70°	2368	3079	3600
75°	2108	3168	3793
80°	1722	3236	3704
85°	1214	2826	2884



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	3.3
10°-20°	670.1	9.4
20°-30°	1004.5	14.1
30°-40°	1196.4	16.8
40°-50°	1233.6	17.3
50°-60°	1125.6	15.8
60°-70°	900.1	12.6
70°-80°	588.0	8.2
80°-90°	176.5	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°	1909.9	26.8
0°-40°	3106.2	43.6
0°-60°	5465.4	76.7
0°-90°	7130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2489	2489	2489	2489	2489	
5°	2483	2478	2468	2483	2481	236
15°	2369	2370	2368	2388	2388	668
25°	2156	2160	2175	2206	2209	993
35°	1860	1873	1907	1955	1966	1162
45°	1511	1538	1596	1663	1684	1165
55°	1142	1175	1261	1344	1370	1017
65°	760	812	917	1007	1041	754
75°	386	451	581	675	696	411
85°	75	135	174	178	178	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2488.8	2488.8	2488.8	2488.8	2488.8
2.5°	2492.3	2488.8	2475.7	2491.1	2488.8
5°	2482.9	2478.0	2467.5	2482.9	2480.6
7.5°	2464.0	2461.7	2451.2	2468.7	2466.4
10°	2440.6	2438.3	2430.1	2447.7	2444.2
12.5°	2407.9	2406.8	2400.9	2422.0	2419.6
15°	2369.1	2370.3	2368.0	2388.1	2388.1
17.5°	2324.8	2323.6	2328.3	2352.8	2350.5
20°	2273.1	2274.3	2280.1	2308.4	2308.4
22.5°	2219.4	2218.2	2231.1	2259.1	2261.4
25°	2156.0	2159.5	2174.7	2206.5	2208.9
27.5°	2088.0	2094.1	2112.8	2149.0	2152.5
30°	2016.8	2023.8	2051.8	2085.7	2090.4
32.5°	1938.3	1953.5	1979.2	2022.6	2034.3
35°	1859.8	1872.6	1906.7	1954.6	1966.3
37.5°	1773.1	1794.1	1832.9	1885.5	1900.9
40°	1687.5	1708.8	1756.7	1811.9	1828.2
42.5°	1600.9	1623.3	1678.2	1740.3	1757.9
45°	1510.9	1537.8	1596.2	1663.0	1684.0
47.5°	1418.4	1449.9	1513.2	1585.7	1609.3
50°	1327.0	1358.5	1431.2	1506.0	1527.2
52.5°	1228.6	1268.3	1345.7	1426.5	1447.6
55°	1141.9	1174.6	1261.3	1344.5	1370.2
57.5°	1040.1	1084.4	1177.0	1261.3	1285.9
60°	949.9	990.7	1089.1	1174.6	1202.7
62.5°	858.5	900.6	998.9	1096.1	1122.1
65°	760.1	811.5	916.9	1007.1	1041.2
67.5°	666.4	720.2	828.1	923.9	959.2
70°	573.9	628.8	746.1	844.5	872.5
72.5°	482.5	540.0	661.7	757.8	790.5
75°	386.5	451.0	580.9	674.6	695.6
77.5°	296.3	367.8	498.9	562.2	577.4
80°	211.9	290.4	398.2	444.0	455.7
82.5°	139.3	215.4	297.5	322.0	318.5
85°	75.0	134.6	174.5	178.1	178.1
87.5°	29.2	54.0	55.1	42.1	39.7
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)