

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: P880998

Luminaire Tested: **24CZ2-70VHE-B2750-W2D-3000K**

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: P880998
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: 24CZ2-70VHE-B2750-W2D-3000K
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

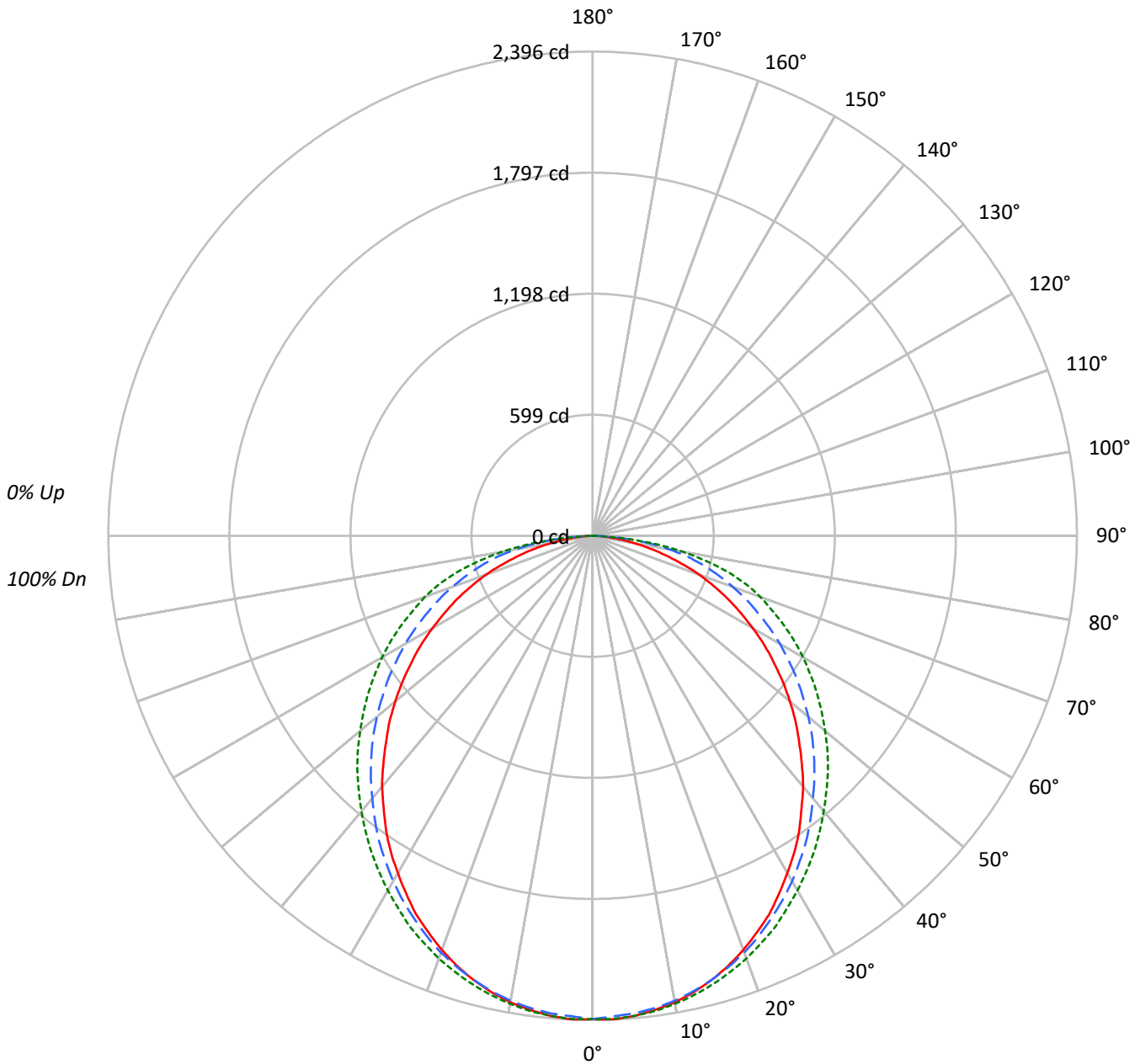
Lumens per Lamp: N/A
Luminaire Lumens: 6923.0 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P880998

CATALOG NUMBER: 24CZ2-70VHE-B2750-W2D-3000K

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°	3376	3376	3376
5°	3378	3361	3378
10°	3360	3348	3371
15°	3325	3324	3357
20°	3276	3296	3343
25°	3219	3255	3326
30°	3141	3217	3303
35°	3070	3176	3289
40°	2986	3124	3276
45°	2884	3092	3286
50°	2797	3057	3296
55°	2694	3036	3333
60°	2583	3021	3394
65°	2461	3011	3481
70°	2317	3041	3641
75°	2037	3104	3787
80°	1701	3127	3654
85°	1214	2680	2716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	3.3
10°-20°	644.2	9.3
20°-30°	966.4	14.0
30°-40°	1153.8	16.7
40°-50°	1195.1	17.3
50°-60°	1100.2	15.9
60°-70°	887.5	12.8
70°-80°	579.8	8.4
80°-90°	170.0	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°	1836.7	26.5
0°-40°	2990.4	43.2
0°-60°	5285.7	76.3
0°-90°	6923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2392	2392	2392	2392	2392	
5°	2384	2382	2372	2386	2384	226
15°	2276	2276	2275	2297	2297	641
25°	2067	2071	2090	2128	2136	950
35°	1782	1797	1843	1894	1909	1113
45°	1445	1481	1549	1618	1646	1117
55°	1095	1142	1234	1324	1354	980
65°	737	788	902	1004	1042	729
75°	374	444	569	668	694	399
85°	75	130	166	176	168	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2392.3	2392.3	2392.3	2392.3	2392.3
2.5°	2395.6	2392.3	2380.0	2394.5	2393.4
5°	2384.5	2382.2	2372.2	2385.6	2384.5
7.5°	2366.6	2365.5	2357.7	2372.2	2372.2
10°	2344.3	2342.0	2336.4	2353.2	2352.1
12.5°	2313.0	2311.9	2308.5	2328.6	2327.5
15°	2275.9	2275.9	2274.8	2297.4	2297.4
17.5°	2231.3	2232.4	2236.8	2262.5	2263.6
20°	2181.0	2185.5	2194.4	2223.4	2225.7
22.5°	2123.8	2132.8	2145.1	2177.7	2181.0
25°	2066.9	2071.4	2090.3	2128.3	2136.1
27.5°	1997.4	2008.8	2033.4	2072.5	2080.3
30°	1927.1	1942.7	1974.0	2014.4	2026.7
32.5°	1857.6	1871.3	1908.1	1953.9	1968.4
35°	1781.7	1797.3	1843.1	1893.6	1909.2
37.5°	1697.7	1722.3	1770.5	1828.6	1845.4
40°	1620.7	1643.0	1695.5	1760.5	1778.4
42.5°	1532.2	1560.2	1624.0	1689.9	1712.2
45°	1444.9	1480.9	1549.0	1618.5	1646.4
47.5°	1363.4	1392.4	1473.1	1551.2	1575.8
50°	1273.9	1307.4	1392.4	1475.3	1501.0
52.5°	1185.6	1225.8	1311.8	1399.1	1427.1
55°	1095.0	1141.9	1233.7	1324.3	1354.5
57.5°	1007.7	1054.8	1149.7	1245.9	1277.2
60°	915.0	965.2	1070.4	1163.1	1202.4
62.5°	825.4	875.7	986.4	1087.2	1124.0
65°	737.0	787.5	901.6	1004.3	1042.5
67.5°	645.4	700.1	822.1	921.7	958.5
70°	561.4	613.9	737.0	843.3	882.4
72.5°	465.2	527.9	653.2	758.2	795.3
75°	373.6	444.0	569.3	667.7	694.5
77.5°	288.5	359.1	484.2	558.1	574.8
80°	209.3	280.7	384.8	436.2	449.6
82.5°	135.3	209.3	278.5	313.1	317.6
85°	75.0	129.8	165.5	175.5	167.7
87.5°	26.8	49.1	48.0	39.1	31.3
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)