

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: P881013

Luminaire Tested: **24CZ2-70VHE-S-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: P881013
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-3000K
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

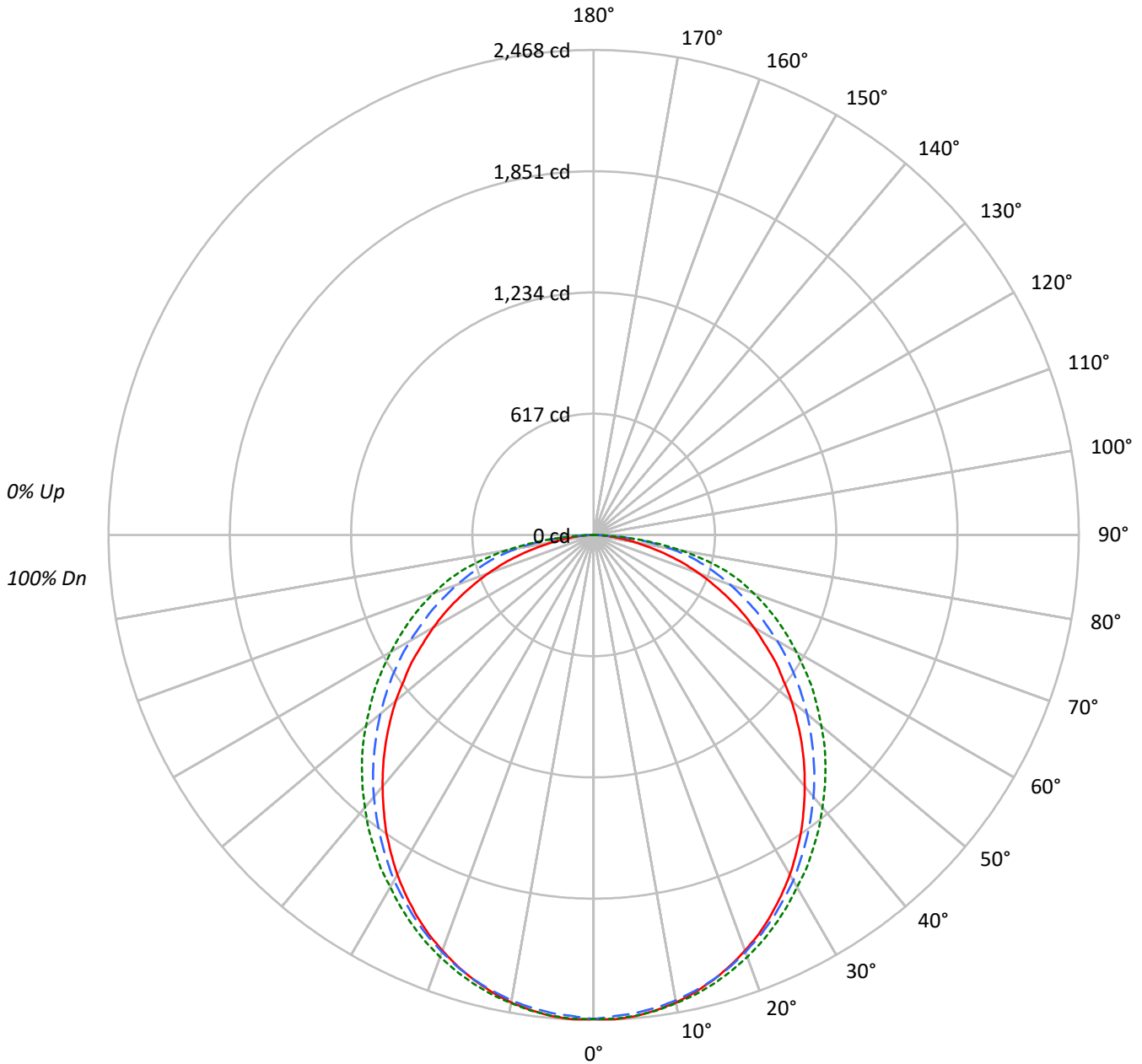
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7059.0 lumens
Efficiency: N/A
Efficacy: 126.1 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): 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: P881013
CATALOG NUMBER: 24CZ2-70VHE-S-B2750-W2D-3000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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°	3478	3478	3478
5°	3483	3461	3479
10°	3463	3448	3468
15°	3427	3425	3455
20°	3380	3390	3432
25°	3324	3353	3406
30°	3254	3311	3373
35°	3172	3252	3354
40°	3078	3204	3335
45°	2986	3154	3328
50°	2885	3111	3320
55°	2782	3073	3338
60°	2654	3044	3361
65°	2513	3032	3443
70°	2345	3048	3564
75°	2086	3136	3755
80°	1705	3204	3666
85°	1203	2798	2855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.9	3.3
10°-20°	663.4	9.4
20°-30°	994.5	14.1
30°-40°	1184.4	16.8
40°-50°	1221.3	17.3
50°-60°	1114.4	15.8
60°-70°	891.1	12.6
70°-80°	582.1	8.2
80°-90°	174.8	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°	1890.9	26.8
0°-40°	3075.3	43.6
0°-60°	5411.0	76.7
0°-90°	7059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2464	2464	2464	2464	2464	
5°	2458	2453	2443	2458	2456	233
15°	2346	2347	2344	2364	2364	661
25°	2135	2138	2153	2184	2187	983
35°	1841	1854	1888	1935	1947	1150
45°	1496	1522	1580	1646	1667	1153
55°	1131	1163	1249	1331	1357	1007
65°	752	803	908	997	1031	746
75°	383	446	575	668	689	407
85°	74	133	173	176	176	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2464.0	2464.0	2464.0	2464.0	2464.0
2.5°	2467.5	2464.0	2451.0	2466.3	2464.0
5°	2458.2	2453.4	2442.9	2458.2	2455.9
7.5°	2439.5	2437.2	2426.8	2444.1	2441.8
10°	2416.3	2414.0	2405.9	2423.3	2419.8
12.5°	2384.0	2382.8	2377.0	2397.8	2395.5
15°	2345.6	2346.7	2344.4	2364.3	2364.3
17.5°	2301.6	2300.4	2305.1	2329.4	2327.0
20°	2250.5	2251.6	2257.4	2285.4	2285.4
22.5°	2197.3	2196.1	2208.8	2236.6	2238.9
25°	2134.6	2138.0	2153.1	2184.5	2186.9
27.5°	2067.3	2073.3	2091.8	2127.6	2131.1
30°	1996.7	2003.6	2031.4	2064.9	2069.6
32.5°	1919.0	1934.0	1959.4	2002.5	2014.0
35°	1841.2	1854.0	1887.7	1935.2	1946.7
37.5°	1755.4	1776.2	1814.6	1866.7	1882.0
40°	1670.7	1691.8	1739.2	1793.8	1810.0
42.5°	1584.9	1607.1	1661.5	1723.0	1740.4
45°	1495.8	1522.4	1580.3	1646.4	1667.3
47.5°	1404.2	1435.5	1498.2	1569.9	1593.2
50°	1313.8	1345.0	1417.0	1491.0	1512.0
52.5°	1216.4	1255.7	1332.3	1412.3	1433.2
55°	1130.6	1162.9	1248.8	1331.1	1356.6
57.5°	1029.7	1073.6	1165.3	1248.8	1273.1
60°	940.4	980.9	1078.3	1162.9	1190.7
62.5°	849.9	891.6	989.0	1085.2	1110.9
65°	752.5	803.4	907.8	997.1	1030.9
67.5°	659.8	713.0	819.9	914.7	949.7
70°	568.2	622.5	738.7	836.1	863.8
72.5°	477.7	534.6	655.2	750.2	782.6
75°	382.6	446.5	575.1	667.9	688.7
77.5°	293.3	364.1	493.9	556.6	571.6
80°	209.8	287.6	394.2	439.5	451.1
82.5°	137.9	213.3	294.5	318.8	315.3
85°	74.3	133.3	172.8	176.3	176.3
87.5°	28.9	53.4	54.6	41.6	39.3
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)