

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: P881038

Luminaire Tested: **24CZ2-75VHE-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: P881038
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: 24CZ2-75VHE-S-B2750-W2D-3000K
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

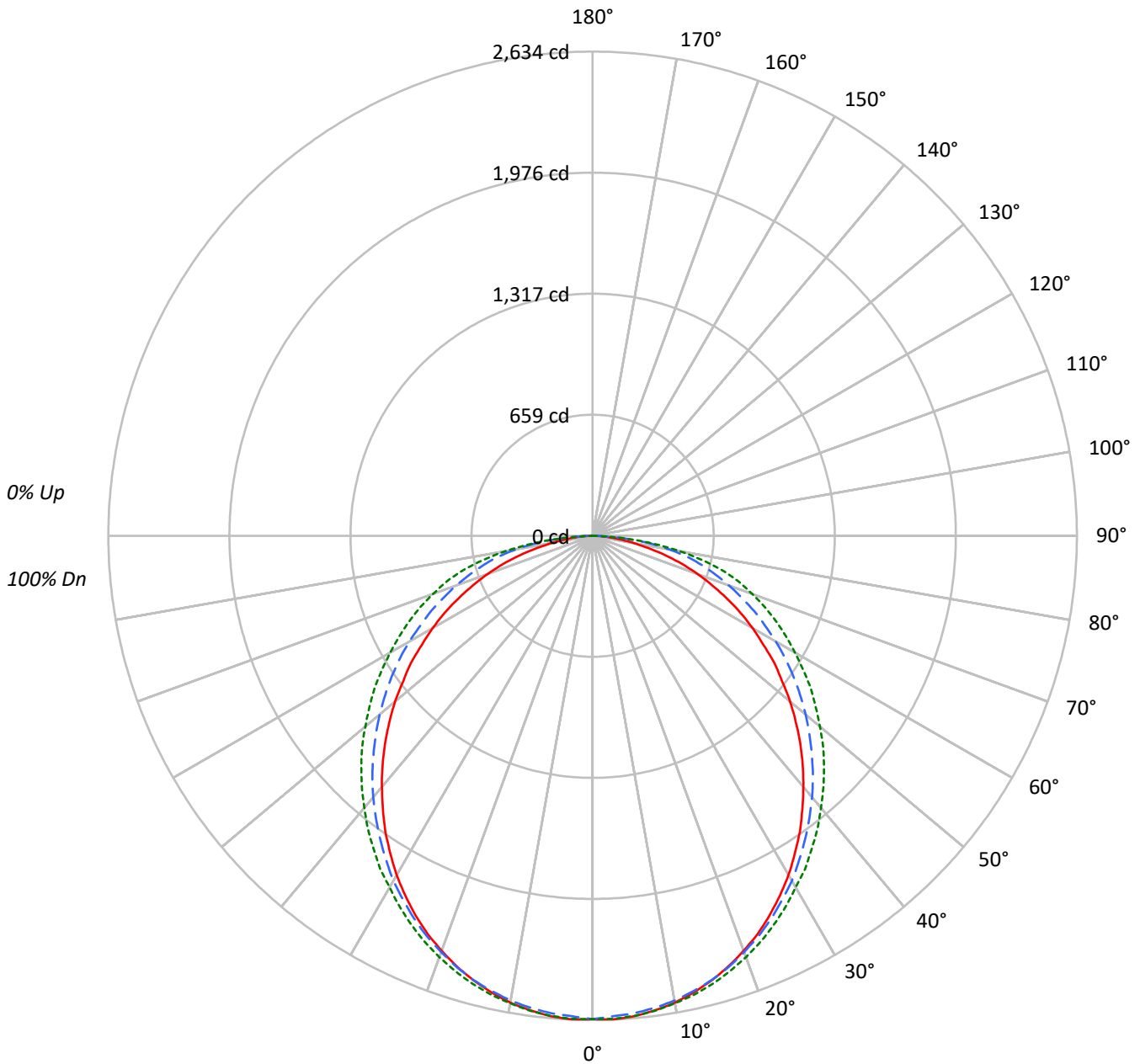
Lumens per Lamp: N/A
Luminaire Lumens: 7534.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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°	3712	3712	3712
5°	3717	3694	3714
10°	3696	3680	3701
15°	3658	3656	3687
20°	3607	3619	3663
25°	3548	3579	3635
30°	3473	3533	3600
35°	3386	3471	3580
40°	3285	3420	3559
45°	3187	3366	3552
50°	3079	3320	3543
55°	2969	3279	3563
60°	2833	3248	3587
65°	2682	3236	3674
70°	2502	3253	3804
75°	2227	3347	4008
80°	1820	3419	3913
85°	1284	2986	3046



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	3.3
10°-20°	708.1	9.4
20°-30°	1061.4	14.1
30°-40°	1264.2	16.8
40°-50°	1303.5	17.3
50°-60°	1189.4	15.8
60°-70°	951.1	12.6
70°-80°	621.3	8.2
80°-90°	186.5	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°	2018.1	26.8
0°-40°	3282.2	43.6
0°-60°	5775.1	76.7
0°-90°	7534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2630	2630	2630	2630	2630	
5°	2624	2618	2607	2624	2621	249
15°	2503	2505	2502	2523	2523	706
25°	2278	2282	2298	2332	2334	1049
35°	1965	1979	2015	2065	2078	1228
45°	1596	1625	1687	1757	1780	1231
55°	1207	1241	1333	1421	1448	1075
65°	803	858	969	1064	1100	796
75°	408	476	614	713	735	434
85°	79	142	184	188	188	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2629.8	2629.8	2629.8	2629.8	2629.8
2.5°	2633.5	2629.8	2616.0	2632.3	2629.8
5°	2623.6	2618.4	2607.3	2623.6	2621.2
7.5°	2603.6	2601.2	2590.1	2608.6	2606.1
10°	2578.9	2576.5	2567.8	2586.3	2582.6
12.5°	2544.4	2543.1	2537.0	2559.2	2556.7
15°	2503.4	2504.6	2502.2	2523.4	2523.4
17.5°	2456.5	2455.2	2460.2	2486.1	2483.6
20°	2401.9	2403.1	2409.3	2439.2	2439.2
22.5°	2345.1	2343.9	2357.5	2387.1	2389.6
25°	2278.2	2281.9	2298.0	2331.5	2334.0
27.5°	2206.4	2212.8	2232.5	2270.8	2274.5
30°	2131.1	2138.5	2168.1	2203.9	2208.8
32.5°	2048.1	2064.1	2091.3	2137.2	2149.6
35°	1965.1	1978.7	2014.8	2065.4	2077.7
37.5°	1873.5	1895.8	1936.7	1992.3	2008.6
40°	1783.2	1805.6	1856.2	1914.5	1931.8
42.5°	1691.6	1715.3	1773.3	1839.0	1857.5
45°	1596.5	1624.9	1686.6	1757.2	1779.5
47.5°	1498.7	1532.1	1599.0	1675.5	1700.4
50°	1402.2	1435.5	1512.3	1591.3	1613.8
52.5°	1298.2	1340.2	1421.9	1507.4	1529.6
55°	1206.6	1241.2	1332.8	1420.7	1447.9
57.5°	1099.0	1145.9	1243.7	1332.8	1358.7
60°	1003.7	1046.9	1150.8	1241.2	1270.8
62.5°	907.1	951.6	1055.5	1158.2	1185.6
65°	803.2	857.5	968.9	1064.2	1100.2
67.5°	704.2	761.0	875.0	976.3	1013.6
70°	606.4	664.4	788.4	892.3	921.9
72.5°	509.9	570.6	699.2	800.7	835.3
75°	408.4	476.5	613.8	712.8	735.0
77.5°	313.1	388.6	527.1	594.1	610.1
80°	223.9	306.9	420.7	469.1	481.5
82.5°	147.2	227.6	314.3	340.2	336.5
85°	79.3	142.2	184.4	188.1	188.1
87.5°	30.9	57.0	58.3	44.4	42.0
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)