

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: P881300

Luminaire Tested: **24CZ2-75VHE-UNV-B40**

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: P881300
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: 24CZ2-75VHE-UNV-B40
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

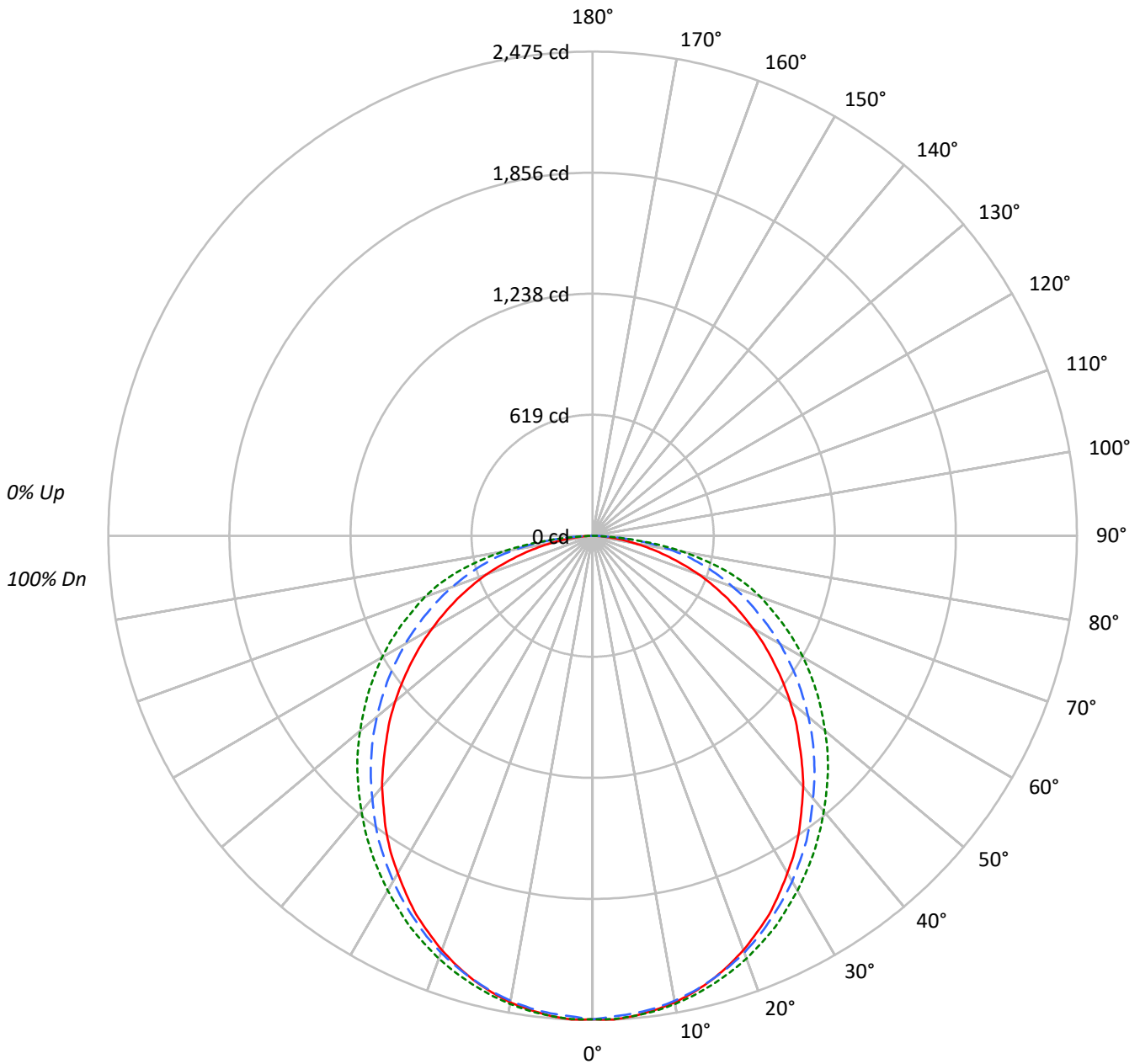
Lumens per Lamp: N/A
Luminaire Lumens: 7153.0 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3489	3489	3489
5°	3490	3472	3490
10°	3471	3460	3483
15°	3436	3434	3468
20°	3385	3405	3454
25°	3326	3363	3437
30°	3245	3324	3413
35°	3172	3281	3399
40°	3085	3227	3385
45°	2980	3194	3395
50°	2890	3159	3405
55°	2784	3136	3444
60°	2669	3122	3507
65°	2543	3111	3597
70°	2394	3142	3762
75°	2105	3207	3913
80°	1757	3232	3775
85°	1255	2769	2806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	3.3
10°-20°	665.6	9.3
20°-30°	998.5	14.0
30°-40°	1192.1	16.7
40°-50°	1234.8	17.3
50°-60°	1136.7	15.9
60°-70°	917.0	12.8
70°-80°	599.1	8.4
80°-90°	175.6	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°	1897.7	26.5
0°-40°	3089.8	43.2
0°-60°	5461.3	76.3
0°-90°	7153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2472	2472	2472	2472	2472	
5°	2464	2461	2451	2465	2464	234
15°	2352	2352	2350	2374	2374	663
25°	2136	2140	2160	2199	2207	982
35°	1841	1857	1904	1956	1973	1150
45°	1493	1530	1600	1672	1701	1154
55°	1131	1180	1275	1368	1400	1012
65°	762	814	932	1038	1077	753
75°	386	459	588	690	718	412
85°	78	134	171	181	173	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2471.8	2471.8	2471.8	2471.8	2471.8
2.5°	2475.2	2471.8	2459.1	2474.1	2472.9
5°	2463.7	2461.4	2451.0	2464.8	2463.7
7.5°	2445.2	2444.1	2436.0	2451.0	2451.0
10°	2422.1	2419.8	2414.1	2431.4	2430.2
12.5°	2389.8	2388.7	2385.2	2406.0	2404.8
15°	2351.5	2351.5	2350.4	2373.7	2373.7
17.5°	2305.4	2306.5	2311.2	2337.7	2338.8
20°	2253.5	2258.1	2267.3	2297.3	2299.6
22.5°	2194.4	2203.6	2216.3	2250.0	2253.5
25°	2135.6	2140.2	2159.8	2199.0	2207.1
27.5°	2063.8	2075.6	2100.9	2141.3	2149.4
30°	1991.1	2007.3	2039.6	2081.3	2094.0
32.5°	1919.3	1933.4	1971.5	2018.8	2033.8
35°	1840.9	1857.0	1904.4	1956.5	1972.7
37.5°	1754.1	1779.5	1829.4	1889.4	1906.7
40°	1674.5	1697.6	1751.8	1819.0	1837.4
42.5°	1583.2	1612.0	1678.0	1746.1	1769.1
45°	1492.9	1530.1	1600.5	1672.2	1701.1
47.5°	1408.7	1438.7	1522.0	1602.8	1628.1
50°	1316.2	1350.8	1438.7	1524.3	1550.8
52.5°	1225.0	1266.6	1355.4	1445.6	1474.5
55°	1131.3	1179.8	1274.6	1368.3	1399.5
57.5°	1041.1	1089.8	1187.9	1287.3	1319.6
60°	945.4	997.3	1106.0	1201.7	1242.3
62.5°	852.8	904.8	1019.2	1123.3	1161.3
65°	761.5	813.6	931.5	1037.7	1077.1
67.5°	666.9	723.4	849.4	952.3	990.4
70°	580.1	634.3	761.5	871.3	911.7
72.5°	480.6	545.5	674.9	783.4	821.7
75°	386.0	458.7	588.2	689.9	717.6
77.5°	298.1	371.0	500.3	576.6	593.9
80°	216.2	290.0	397.6	450.6	464.5
82.5°	139.8	216.2	287.7	323.5	328.1
85°	77.5	134.1	171.0	181.4	173.3
87.5°	27.7	50.8	49.6	40.4	32.3
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)