

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: P881028

Luminaire Tested: **24CZ2-75VHE-HRP-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: P881028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474369)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75VHE-HRP-B2750-W2D-3000K
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

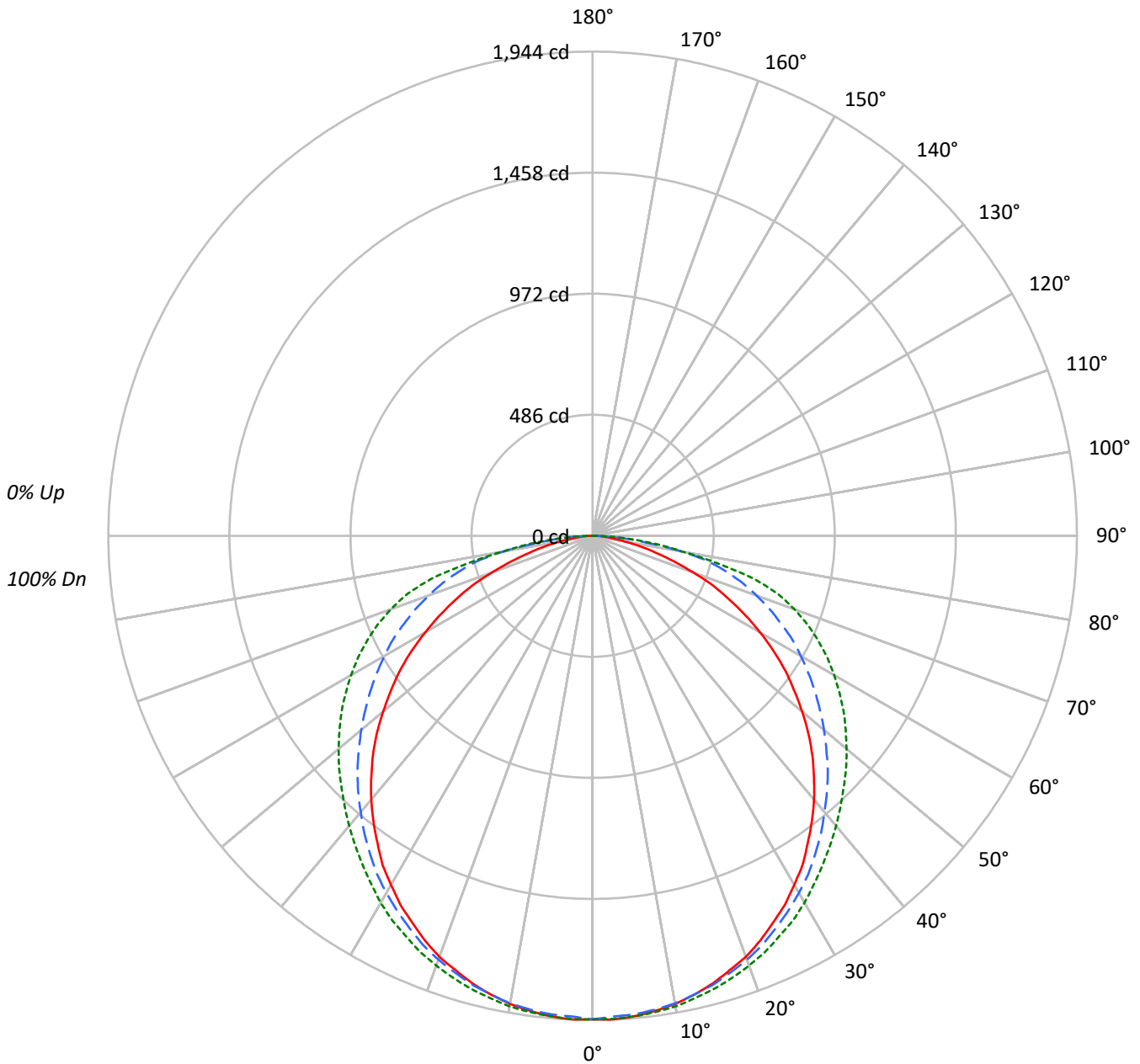
Lumens per Lamp: N/A
Luminaire Lumens: 5984.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 60
Input Voltage (V): NR
Input Current (A_{in}): 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	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2740	2740	2740
5°	2744	2733	2744
10°	2736	2732	2750
15°	2720	2727	2753
20°	2702	2720	2758
25°	2668	2707	2762
30°	2637	2698	2772
35°	2594	2684	2775
40°	2547	2668	2801
45°	2490	2665	2845
50°	2409	2662	2921
55°	2324	2681	3027
60°	2192	2722	3161
65°	2024	2786	3339
70°	1768	2884	3556
75°	1434	3032	3674
80°	1060	2974	2974
85°	811	2191	2474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	3.1
10°-20°	528.1	8.8
20°-30°	804.0	13.4
30°-40°	976.3	16.3
40°-50°	1031.5	17.2
50°-60°	973.3	16.3
60°-70°	809.3	13.5
70°-80°	532.4	8.9
80°-90°	145.1	2.4
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°	1516.1	25.3
0°-40°	2492.4	41.7
0°-60°	4497.2	75.2
0°-90°	5984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1937	1937	1929	1937	1937	184
15°	1861	1864	1866	1884	1884	525
25°	1713	1724	1738	1769	1774	790
35°	1506	1523	1558	1598	1611	942
45°	1247	1273	1335	1400	1426	961
55°	944	984	1090	1193	1230	841
65°	606	677	834	957	1000	599
75°	263	384	556	659	674	283
85°	50	110	135	150	153	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.5	1941.5	1941.5	1941.5	1941.5
2.5°	1944.0	1941.5	1931.4	1941.5	1941.5
5°	1936.6	1936.6	1928.9	1936.6	1936.6
7.5°	1924.0	1924.0	1918.8	1928.9	1928.9
10°	1908.9	1908.9	1906.4	1918.8	1918.8
12.5°	1886.4	1888.7	1886.4	1901.3	1901.3
15°	1861.3	1863.7	1866.4	1884.0	1884.0
17.5°	1828.9	1833.9	1838.8	1858.8	1861.3
20°	1798.8	1801.0	1811.1	1833.9	1836.3
22.5°	1758.8	1766.2	1778.8	1801.0	1808.9
25°	1713.4	1723.5	1738.5	1768.7	1773.6
27.5°	1670.9	1678.5	1698.5	1731.1	1741.3
30°	1618.3	1630.9	1655.8	1688.4	1701.0
32.5°	1568.2	1580.8	1610.9	1645.7	1655.8
35°	1505.7	1523.2	1558.0	1598.3	1610.9
37.5°	1445.5	1463.0	1505.7	1550.6	1565.9
40°	1382.7	1402.7	1448.2	1500.5	1520.5
42.5°	1315.1	1342.7	1392.9	1450.4	1473.1
45°	1247.4	1272.6	1335.1	1400.3	1425.5
47.5°	1175.1	1205.2	1272.6	1350.4	1380.5
50°	1097.3	1134.8	1212.6	1297.5	1330.4
52.5°	1019.8	1062.2	1149.9	1245.0	1280.3
55°	944.5	984.5	1089.6	1192.6	1230.1
57.5°	861.7	912.1	1027.2	1137.3	1175.1
60°	776.6	831.9	964.5	1079.5	1119.8
62.5°	691.4	754.1	904.2	1019.8	1062.2
65°	606.2	676.6	834.3	957.0	999.8
67.5°	523.5	601.2	769.1	891.9	934.3
70°	428.4	526.2	698.8	819.3	861.7
72.5°	340.7	453.6	631.1	744.2	781.7
75°	263.0	383.5	556.1	658.8	673.8
77.5°	192.8	313.1	478.5	513.3	516.1
80°	130.4	250.4	365.9	360.7	365.9
82.5°	85.2	187.9	230.4	258.0	260.5
85°	50.1	110.4	135.3	150.4	152.8
87.5°	24.9	37.5	47.7	50.1	55.1
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)