

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: P880853

Luminaire Tested: **24CZ2-40VHE-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: P880853
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: 24CZ2-40VHE-HRP-B2750-W2D-3000K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

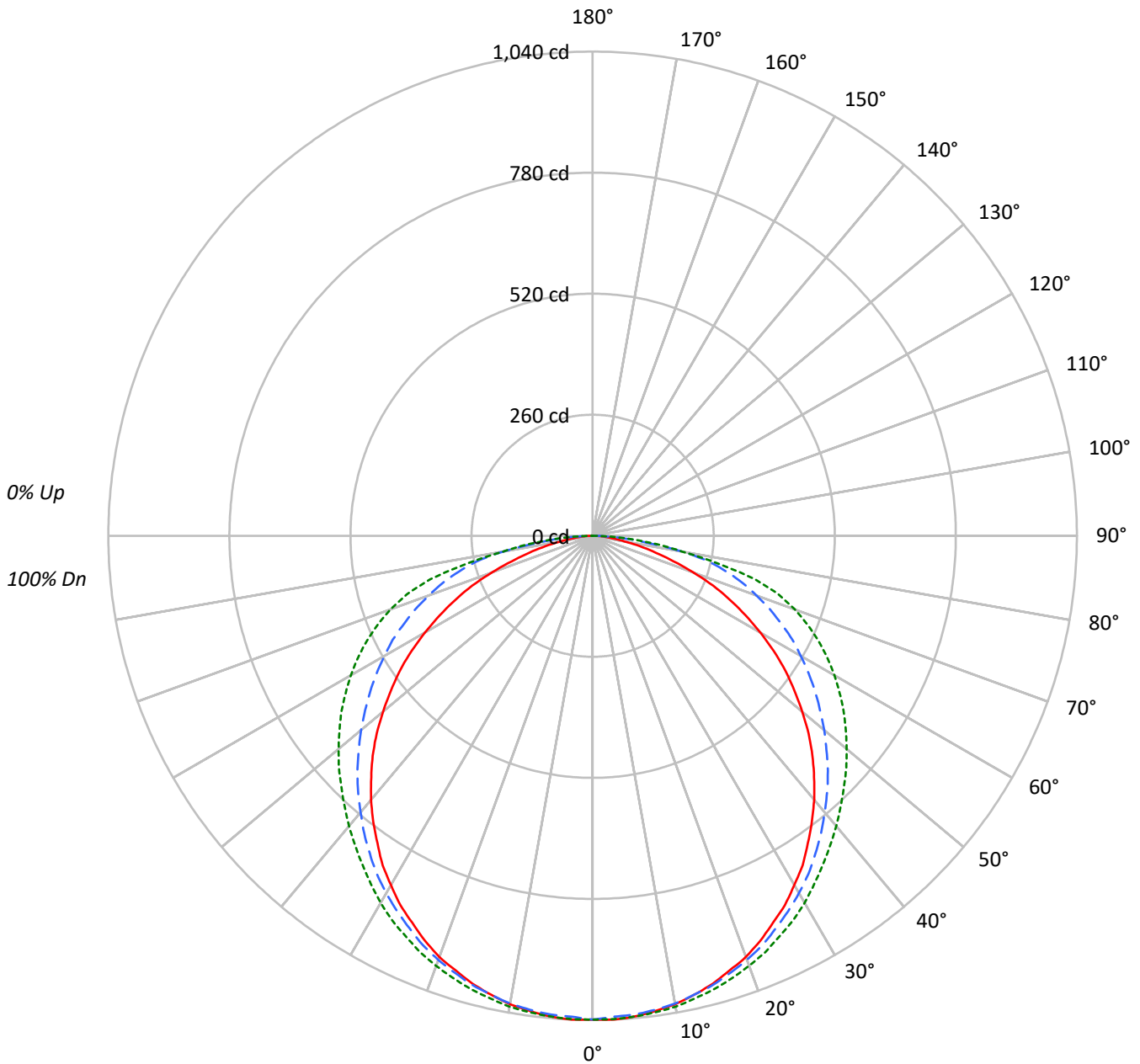
Lumens per Lamp: N/A
Luminaire Lumens: 3203.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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	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°	1467	1467	1467
5°	1469	1463	1469
10°	1464	1462	1472
15°	1456	1460	1473
20°	1446	1456	1476
25°	1428	1449	1478
30°	1412	1444	1484
35°	1389	1437	1486
40°	1364	1428	1500
45°	1333	1426	1523
50°	1290	1425	1564
55°	1244	1435	1620
60°	1173	1457	1692
65°	1084	1491	1787
70°	946	1543	1904
75°	768	1623	1967
80°	567	1592	1592
85°	434	1172	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	3.1
10°-20°	282.7	8.8
20°-30°	430.4	13.4
30°-40°	522.6	16.3
40°-50°	552.1	17.2
50°-60°	521.0	16.3
60°-70°	433.2	13.5
70°-80°	285.0	8.9
80°-90°	77.7	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°	811.5	25.3
0°-40°	1334.1	41.7
0°-60°	2407.1	75.2
0°-90°	3203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1037	1037	1032	1037	1037	98
15°	996	998	999	1008	1008	281
25°	917	922	931	947	949	423
35°	806	815	834	856	862	504
45°	668	681	715	750	763	514
55°	506	527	583	638	658	450
65°	324	362	447	512	535	321
75°	141	205	298	353	361	152
85°	27	59	72	80	82	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.2	1039.2	1039.2	1039.2	1039.2
2.5°	1040.5	1039.2	1033.8	1039.2	1039.2
5°	1036.6	1036.6	1032.5	1036.6	1036.6
7.5°	1029.8	1029.8	1027.1	1032.5	1032.5
10°	1021.8	1021.8	1020.4	1027.1	1027.1
12.5°	1009.7	1010.9	1009.7	1017.7	1017.7
15°	996.3	997.6	999.0	1008.4	1008.4
17.5°	978.9	981.6	984.2	994.9	996.3
20°	962.8	964.0	969.4	981.6	982.9
22.5°	941.4	945.4	952.1	964.0	968.2
25°	917.1	922.5	930.6	946.7	949.3
27.5°	894.4	898.5	909.2	926.6	932.0
30°	866.2	872.9	886.3	903.7	910.5
32.5°	839.4	846.1	862.2	880.9	886.3
35°	805.9	815.3	834.0	855.5	862.2
37.5°	773.7	783.1	805.9	830.0	838.2
40°	740.1	750.8	775.1	803.2	813.9
42.5°	703.9	718.7	745.5	776.3	788.5
45°	667.7	681.2	714.6	749.5	763.0
47.5°	629.0	645.1	681.2	722.8	738.9
50°	587.3	607.4	649.1	694.5	712.1
52.5°	545.8	568.6	615.5	666.4	685.3
55°	505.5	526.9	583.2	638.4	658.4
57.5°	461.3	488.2	549.8	608.8	629.0
60°	415.7	445.3	516.2	577.8	599.4
62.5°	370.1	403.6	484.0	545.8	568.6
65°	324.5	362.1	446.6	512.3	535.1
67.5°	280.2	321.8	411.7	477.4	500.1
70°	229.3	281.6	374.0	438.5	461.3
72.5°	182.4	242.8	337.8	398.3	418.4
75°	140.8	205.3	297.6	352.6	360.7
77.5°	103.2	167.6	256.1	274.8	276.2
80°	69.8	134.0	195.9	193.1	195.9
82.5°	45.6	100.6	123.3	138.1	139.4
85°	26.8	59.1	72.4	80.5	81.8
87.5°	13.3	20.1	25.5	26.8	29.5
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)