

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: P880907

Luminaire Tested: **24CZ2-50VHE-RDP-B2750-W2D-2700K**

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: P880907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50VHE-RDP-B2750-W2D-2700K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

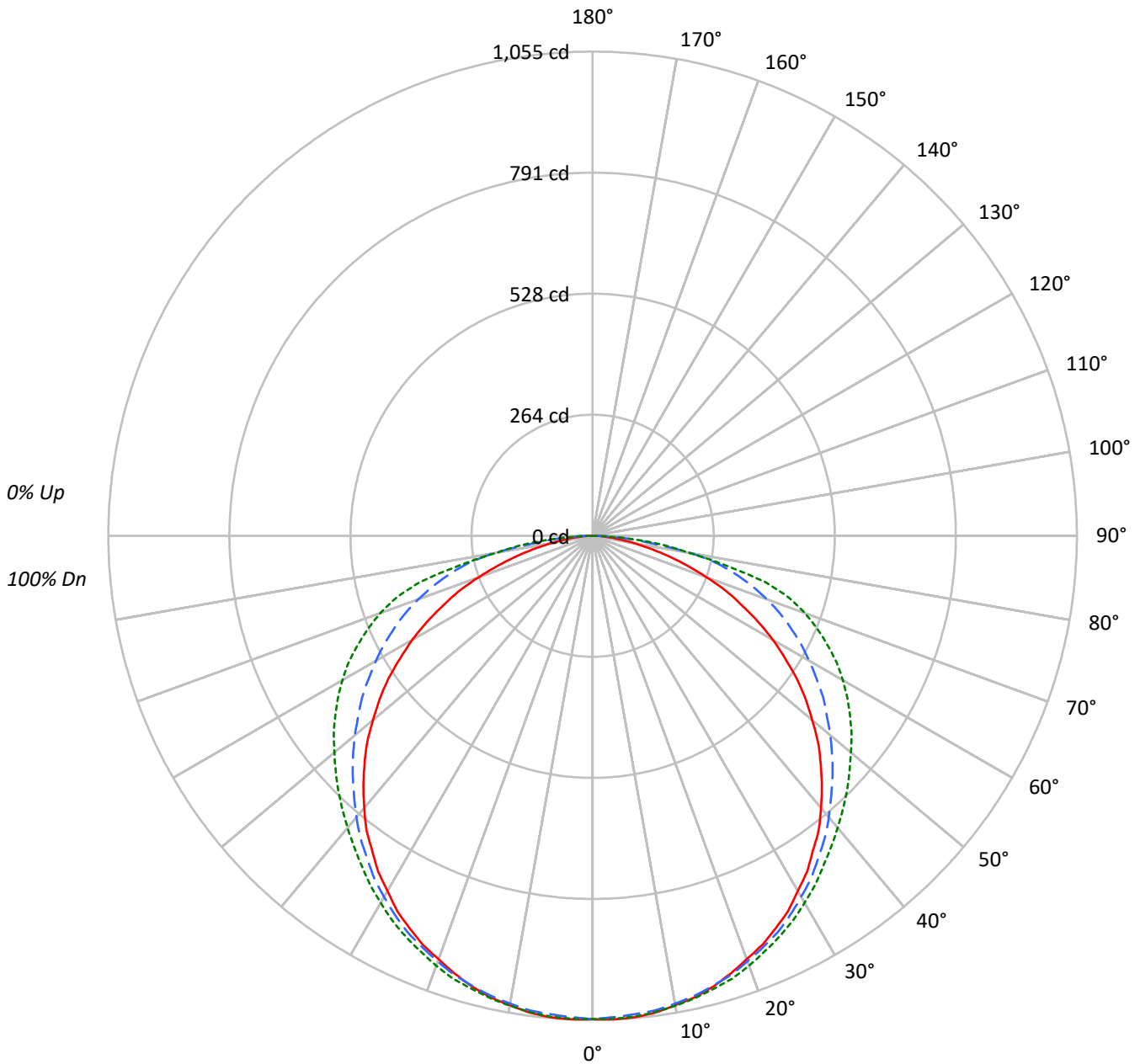
Lumens per Lamp: N/A
Luminaire Lumens: 3349.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 38
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	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1486	1486	1486
5°	1492	1483	1490
10°	1488	1483	1490
15°	1485	1483	1493
20°	1474	1482	1497
25°	1469	1485	1500
30°	1456	1481	1505
35°	1442	1477	1511
40°	1426	1475	1530
45°	1403	1475	1565
50°	1371	1484	1612
55°	1336	1508	1684
60°	1280	1538	1777
65°	1198	1592	1886
70°	1090	1666	2029
75°	923	1758	2120
80°	729	1768	1714
85°	539	1346	1508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.0
10°-20°	287.5	8.6
20°-30°	439.7	13.1
30°-40°	537.5	16.0
40°-50°	572.9	17.1
50°-60°	547.7	16.4
60°-70°	464.0	13.9
70°-80°	311.8	9.3
80°-90°	88.0	2.6
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°	827.1	24.7
0°-40°	1364.6	40.7
0°-60°	2485.2	74.2
0°-90°	3349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1053	1052	1047	1052	1052	100
15°	1017	1017	1015	1023	1022	287
25°	944	947	954	962	964	435
35°	837	844	857	874	877	524
45°	703	714	739	771	784	542
55°	543	563	613	661	684	484
65°	359	396	477	540	565	356
75°	169	231	322	377	389	181
85°	33	68	83	90	93	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.2	1053.2	1053.2	1053.2	1053.2
2.5°	1054.8	1054.8	1049.8	1053.2	1053.2
5°	1053.2	1051.6	1046.6	1051.6	1051.6
7.5°	1048.2	1046.6	1043.2	1048.2	1046.6
10°	1038.3	1038.3	1034.9	1039.9	1039.9
12.5°	1029.9	1028.2	1026.6	1033.3	1031.7
15°	1016.6	1016.6	1014.9	1023.2	1021.6
17.5°	1000.0	1001.6	1003.4	1010.1	1011.7
20°	981.7	985.1	986.7	996.8	996.8
22.5°	965.1	966.8	970.2	980.1	980.1
25°	943.6	946.8	953.5	961.7	963.5
27.5°	921.8	923.6	931.9	943.6	945.2
30°	893.6	898.6	908.7	921.8	923.6
32.5°	868.8	873.7	885.3	898.6	902.0
35°	837.2	843.8	857.1	873.7	877.1
37.5°	808.9	813.8	830.5	848.8	853.7
40°	774.2	784.0	800.7	822.2	830.5
42.5°	739.2	749.2	769.2	797.3	807.2
45°	702.7	714.4	739.2	770.8	784.0
47.5°	666.2	679.5	707.7	744.2	759.1
50°	624.5	641.2	676.1	717.6	734.3
52.5°	584.8	604.7	642.8	689.4	711.0
55°	543.1	563.0	613.0	661.2	684.4
57.5°	496.7	523.1	578.1	632.9	657.8
60°	453.5	478.4	544.9	604.7	629.5
62.5°	407.0	440.2	511.6	574.7	599.7
65°	358.8	395.5	476.7	539.8	564.8
67.5°	315.7	355.6	441.9	505.0	529.8
70°	264.1	313.9	403.7	466.7	491.7
72.5°	215.9	270.7	363.8	425.3	448.5
75°	169.3	230.8	322.3	377.1	388.8
77.5°	126.4	190.9	279.0	302.4	294.1
80°	89.7	153.0	217.5	205.8	210.9
82.5°	58.2	116.3	134.6	153.0	157.7
85°	33.3	68.1	83.1	89.7	93.1
87.5°	14.9	25.0	33.3	33.3	31.6
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)