

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: P230407

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50-SQP-UNV-L950-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH SQP LENS
Light Source: (168) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3307.5 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

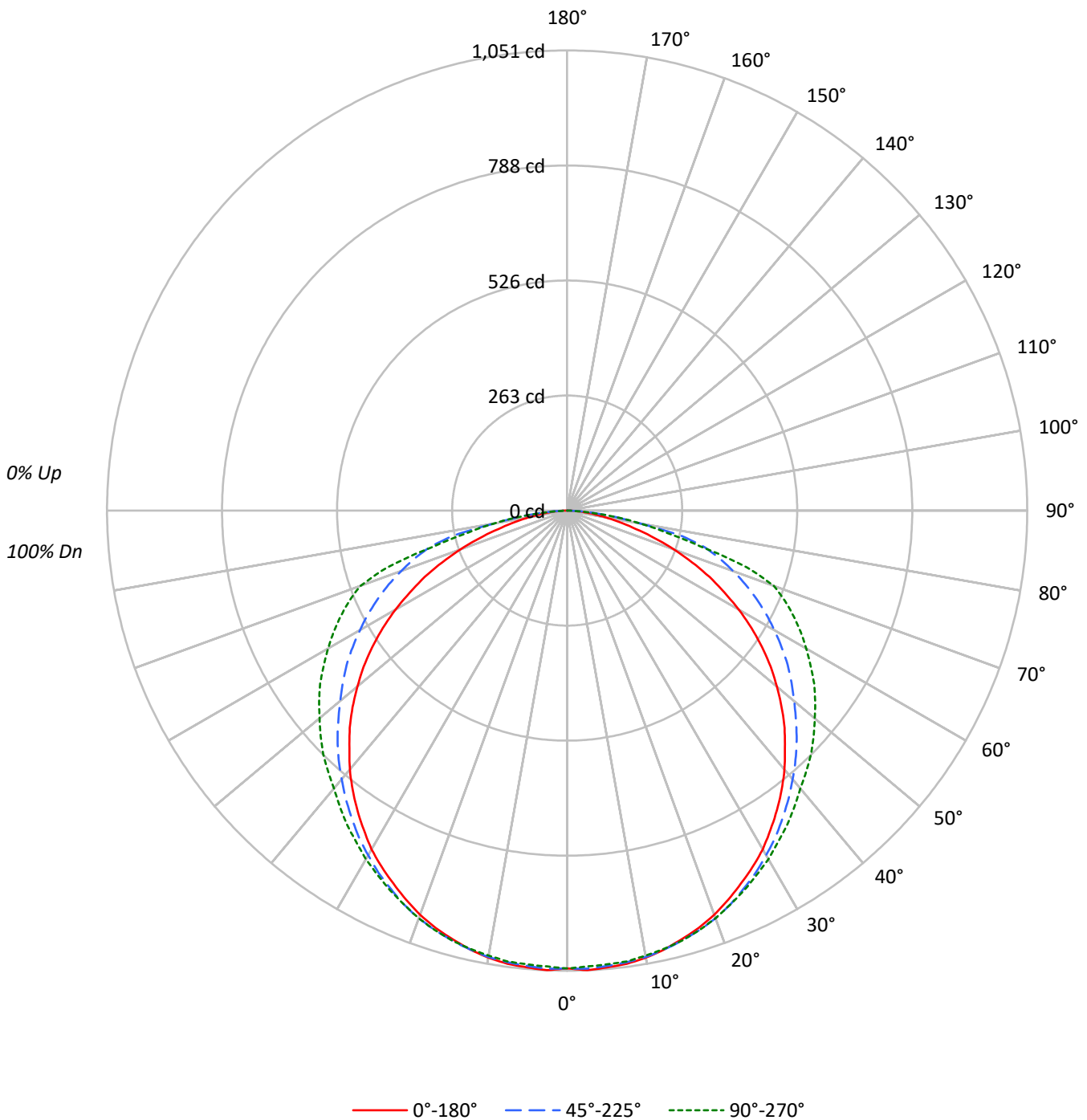
Input Watts (W): 40.68
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	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	97	93	96	93	90		92	90	87		89	87	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	60		70	64	59		67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44		55	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1407	1407	1407
5°	1415	1410	1405
10°	1417	1414	1410
15°	1411	1416	1416
20°	1407	1419	1419
25°	1395	1415	1420
30°	1388	1412	1428
35°	1372	1409	1440
40°	1356	1407	1455
45°	1336	1411	1499
50°	1309	1416	1545
55°	1274	1443	1615
60°	1218	1471	1696
65°	1142	1518	1817
70°	1022	1586	1976
75°	844	1696	1634
80°	688	1310	1323
85°	554	871	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.0
10°-20°	286.5	8.7
20°-30°	437.9	13.2
30°-40°	535.6	16.2
40°-50°	573.1	17.3
50°-60°	548.8	16.6
60°-70°	464.2	14.0
70°-80°	294.3	8.9
80°-90°	67.7	2.0
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°	823.8	24.9
0°-40°	1359.4	41.1
0°-60°	2481.3	75.0
0°-90°	3307.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3307.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1047	1042	1044	1042	1040	100
15°	1013	1011	1016	1016	1016	286
25°	940	940	953	957	957	434
35°	835	841	858	870	876	523
45°	702	714	742	772	788	541
55°	543	560	615	666	688	485
65°	359	393	477	542	571	353
75°	162	229	326	325	314	176
85°	36	55	56	51	53	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1045.6	1045.6	1045.6	1045.6	1045.6
2.5°	1050.7	1045.6	1047.3	1045.6	1042.2
5°	1047.3	1042.2	1043.9	1042.2	1040.5
7.5°	1043.9	1038.7	1040.5	1038.7	1038.7
10°	1037.0	1031.9	1035.3	1033.6	1031.9
12.5°	1026.8	1023.4	1026.8	1025.1	1025.1
15°	1013.1	1011.4	1016.5	1016.5	1016.5
17.5°	999.5	997.7	1004.6	1004.6	1004.6
20°	982.4	980.7	990.9	990.9	990.9
22.5°	961.9	960.2	973.8	973.8	973.8
25°	939.7	939.7	953.3	956.7	956.7
27.5°	917.4	917.4	932.8	937.9	937.9
30°	893.5	893.5	908.9	915.7	919.2
32.5°	864.5	867.9	885.0	893.5	896.9
35°	835.4	840.6	857.6	869.6	876.4
37.5°	804.7	809.8	830.3	844.0	852.5
40°	772.2	779.1	801.3	818.4	828.6
42.5°	736.3	746.6	772.2	794.4	808.1
45°	702.2	714.1	741.5	772.2	787.6
47.5°	664.6	678.3	709.0	748.3	763.7
50°	625.3	639.0	676.6	721.0	738.1
52.5°	586.0	601.4	645.8	693.6	714.1
55°	543.3	560.4	615.0	666.3	688.5
57.5°	498.9	519.4	580.9	635.5	659.5
60°	452.7	478.4	546.7	604.8	630.4
62.5°	404.9	435.7	512.5	574.0	601.4
65°	358.8	392.9	476.7	541.6	570.6
67.5°	309.2	351.9	440.8	510.8	538.2
70°	259.7	309.2	403.2	475.0	502.3
72.5°	210.1	269.9	365.6	430.5	430.5
75°	162.3	228.9	326.3	324.6	314.4
77.5°	123.0	191.3	268.2	228.9	230.6
80°	88.8	153.8	169.1	169.1	170.8
82.5°	59.8	117.9	109.3	107.6	111.1
85°	35.9	54.7	56.4	51.3	53.0
87.5°	17.1	18.8	15.4	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)