

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: P277011

Luminaire Tested: **24CZ2-50-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50-RDP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3176.8 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

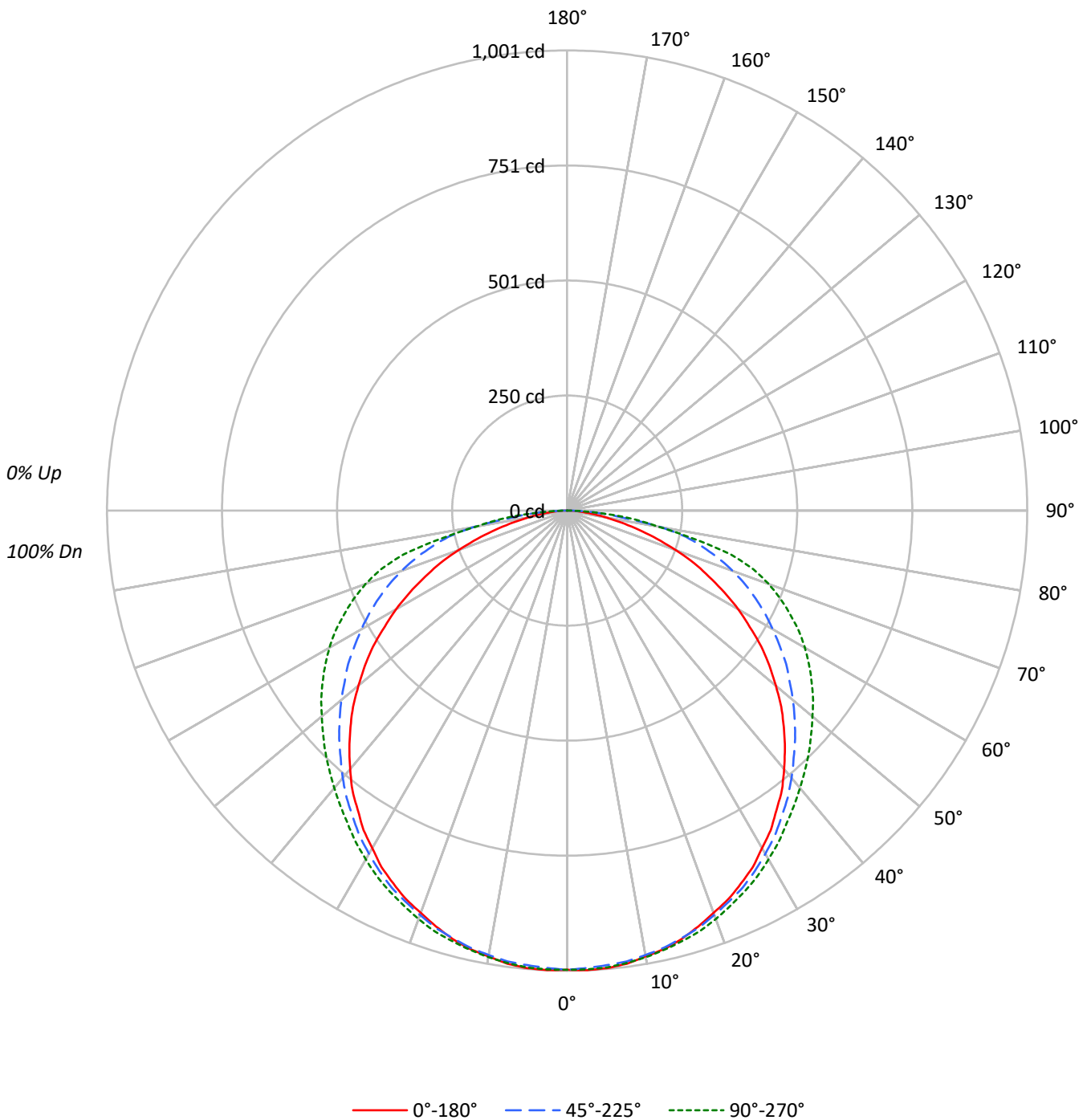
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1344	1344	1344
5°	1349	1341	1347
10°	1345	1341	1348
15°	1343	1341	1350
20°	1333	1340	1354
25°	1329	1343	1357
30°	1317	1339	1361
35°	1305	1336	1367
40°	1290	1334	1384
45°	1268	1334	1415
50°	1240	1342	1458
55°	1209	1364	1523
60°	1158	1391	1607
65°	1084	1440	1706
70°	985	1506	1835
75°	835	1589	1917
80°	659	1599	1550
85°	486	1216	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	3.0
10°-20°	272.7	8.6
20°-30°	417.1	13.1
30°-40°	509.9	16.0
40°-50°	543.4	17.1
50°-60°	519.6	16.4
60°-70°	440.1	13.9
70°-80°	295.8	9.3
80°-90°	83.4	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°	784.6	24.7
0°-40°	1294.4	40.7
0°-60°	2357.4	74.2
0°-90°	3176.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3176.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	999	997	993	997	997	95
15°	964	964	963	971	969	272
25°	895	898	904	912	914	412
35°	794	800	813	829	832	498
45°	666	678	701	731	744	514
55°	515	534	581	627	649	459
65°	340	375	452	512	536	338
75°	161	219	306	358	369	172
85°	32	65	79	85	88	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.0	999.0	999.0	999.0	999.0
2.5°	1000.6	1000.6	995.9	999.0	999.0
5°	999.0	997.4	992.7	997.4	997.4
7.5°	994.3	992.7	989.5	994.3	992.7
10°	984.8	984.8	981.7	986.4	986.4
12.5°	976.9	975.4	973.8	980.1	978.5
15°	964.3	964.3	962.8	970.6	969.1
17.5°	948.6	950.2	951.7	958.0	959.6
20°	931.2	934.4	936.0	945.4	945.4
22.5°	915.5	917.1	920.2	929.7	929.7
25°	895.0	898.2	904.5	912.3	913.9
27.5°	874.5	876.1	884.0	895.0	896.6
30°	847.7	852.5	861.9	874.5	876.1
32.5°	824.1	828.8	839.9	852.5	855.6
35°	794.2	800.5	813.1	828.8	832.0
37.5°	767.4	772.1	787.9	805.2	809.9
40°	734.3	743.7	759.5	780.0	787.9
42.5°	701.2	710.6	729.6	756.3	765.8
45°	666.5	677.6	701.2	731.1	743.7
47.5°	631.9	644.5	671.3	705.9	720.1
50°	592.5	608.2	641.3	680.7	696.5
52.5°	554.7	573.6	609.8	653.9	674.4
55°	515.3	534.2	581.4	627.1	649.2
57.5°	471.1	496.4	548.3	600.3	624.0
60°	430.2	453.8	516.8	573.6	597.2
62.5°	386.1	417.6	485.3	545.2	568.8
65°	340.4	375.0	452.2	512.1	535.7
67.5°	299.4	337.2	419.1	479.0	502.7
70°	250.5	297.8	382.9	442.8	466.4
72.5°	204.8	256.8	345.1	403.4	425.4
75°	160.7	219.0	305.7	357.7	368.7
77.5°	119.8	181.2	264.7	286.8	278.9
80°	85.1	145.0	206.4	195.4	200.1
82.5°	55.2	110.3	127.6	145.0	149.7
85°	31.5	64.6	78.8	85.1	88.2
87.5°	14.2	23.6	31.5	31.5	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)