

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: P260513

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1686.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

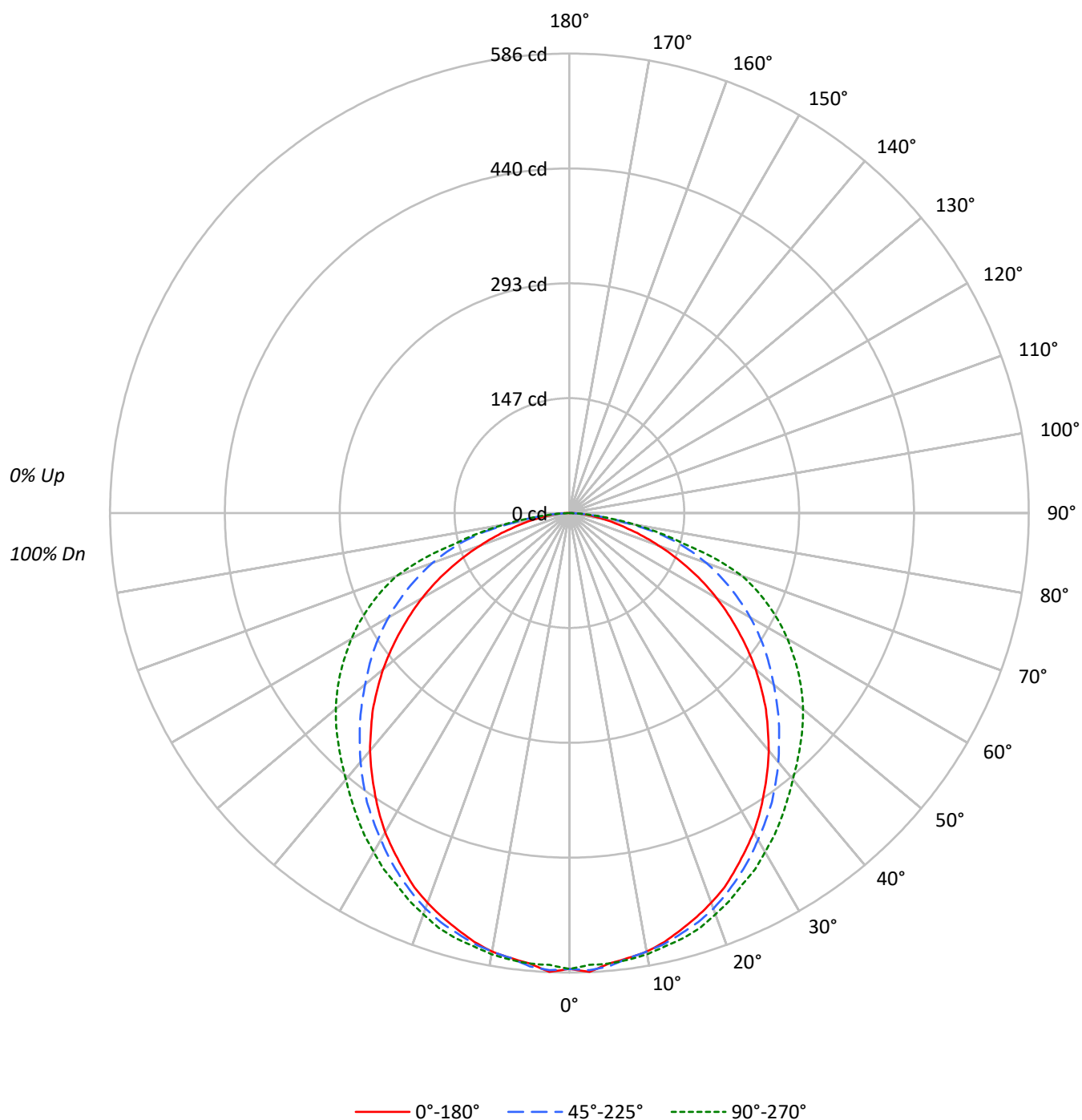
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	77	73		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	31	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1564	1564	1564
5°	1558	1567	1558
10°	1552	1552	1561
15°	1533	1545	1564
20°	1515	1537	1560
25°	1488	1518	1551
30°	1461	1495	1551
35°	1424	1479	1552
40°	1390	1456	1558
45°	1349	1438	1586
50°	1298	1424	1629
55°	1236	1429	1674
60°	1166	1435	1729
65°	1075	1443	1791
70°	953	1460	1845
75°	809	1456	1572
80°	671	1172	1309
85°	584	790	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	3.3
10°-20°	156.6	9.3
20°-30°	235.7	14.0
30°-40°	282.4	16.8
40°-50°	294.5	17.5
50°-60°	274.2	16.3
60°-70°	222.6	13.2
70°-80°	134.2	8.0
80°-90°	30.8	1.8
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°	447.2	26.5
0°-40°	729.7	43.3
0°-60°	1298.4	77.0
0°-90°	1686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	577	577	580	581	577	55
15°	550	552	555	558	561	155
25°	501	505	511	518	522	231
35°	434	439	450	464	472	271
45°	354	361	378	402	417	273
55°	263	274	304	338	357	236
65°	169	187	227	262	281	167
75°	78	103	140	149	151	84
85°	19	23	26	24	24	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	581.3	581.3	581.3	581.3	581.3
2.5°	585.7	584.6	583.5	580.2	576.8
5°	576.8	576.8	580.2	581.3	576.8
7.5°	572.4	572.4	572.4	576.8	574.6
10°	567.9	567.9	567.9	571.3	571.3
12.5°	560.2	561.3	562.4	563.5	565.7
15°	550.1	552.4	554.6	557.9	561.3
17.5°	540.1	542.4	546.8	550.1	554.6
20°	529.0	531.3	536.8	540.1	544.6
22.5°	516.8	517.9	524.6	529.0	534.6
25°	501.2	504.6	511.3	517.9	522.4
27.5°	485.7	489.0	496.8	505.7	512.4
30°	470.1	473.5	481.2	492.4	499.0
32.5°	452.3	456.8	465.7	479.0	486.8
35°	433.5	439.0	450.1	463.5	472.4
37.5°	414.6	420.1	432.3	449.0	457.9
40°	395.7	401.2	414.6	432.3	443.5
42.5°	374.5	381.2	395.7	416.8	430.1
45°	354.5	361.2	377.9	402.3	416.8
47.5°	332.3	340.1	359.0	386.8	403.4
50°	310.1	319.0	340.1	371.2	389.0
52.5°	286.7	296.7	322.3	354.5	373.4
55°	263.4	274.5	304.5	337.9	356.8
57.5°	240.1	252.3	285.6	320.1	339.0
60°	216.7	230.1	266.7	302.3	321.2
62.5°	193.4	207.8	246.7	282.3	302.3
65°	168.9	186.7	226.7	262.3	281.2
67.5°	144.5	165.6	206.7	241.2	259.0
70°	121.1	144.5	185.6	217.8	234.5
72.5°	98.9	123.4	163.4	191.2	197.8
75°	77.8	103.4	140.0	148.9	151.2
77.5°	60.0	83.4	111.1	113.4	118.9
80°	43.3	63.4	75.6	82.2	84.5
82.5°	30.0	43.3	50.0	51.1	52.2
85°	18.9	23.3	25.6	24.5	24.5
87.5°	10.0	8.9	7.8	5.6	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)