

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: P259319

Luminaire Tested: **22CZ-LD5-44-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-44-UNV-L82765-W2A1-U-5500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4594.0 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

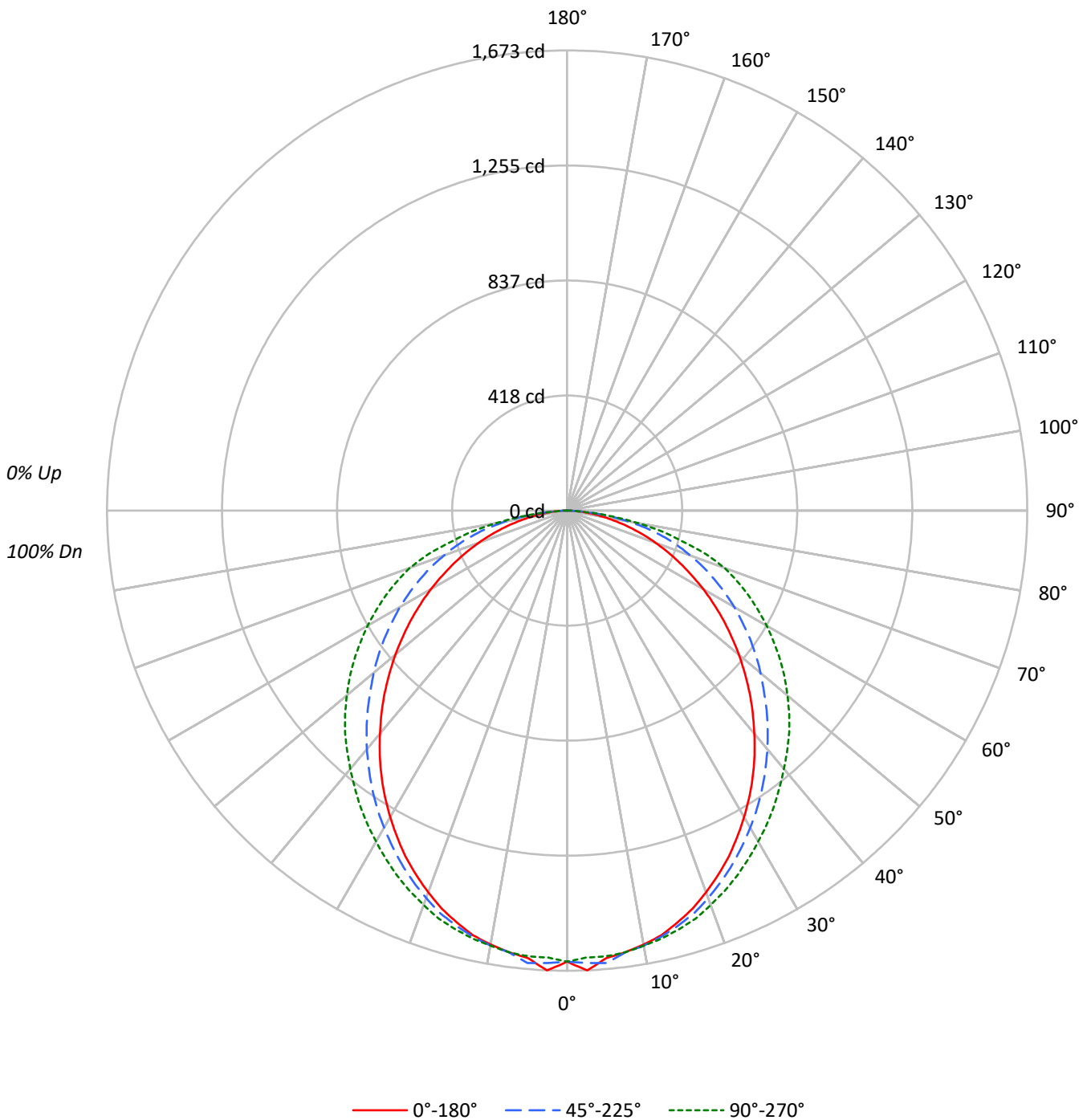
Input Watts (W): 35.526  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4413	4413	4413
5°	4411	4460	4393
10°	4377	4389	4389
15°	4319	4350	4388
20°	4229	4293	4369
25°	4126	4219	4345
30°	3998	4137	4318
35°	3868	4058	4308
40°	3720	3979	4308
45°	3571	3902	4344
50°	3414	3844	4377
55°	3249	3804	4434
60°	3078	3775	4508
65°	2888	3755	4623
70°	2689	3744	4781
75°	2439	3740	4529
80°	2112	3462	4015
85°	1794	2621	2553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.5	3.4
10°-20°	440.5	9.6
20°-30°	655.3	14.3
30°-40°	775.1	16.9
40°-50°	796.6	17.3
50°-60°	727.9	15.8
60°-70°	582.3	12.7
70°-80°	365.4	8.0
80°-90°	95.2	2.1
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°	1251.4	27.2
0°-40°	2026.5	44.1
0°-60°	3551.0	77.3
0°-90°	4594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4594.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1633	1633	1651	1640	1626	155
15°	1550	1553	1562	1570	1575	437
25°	1390	1398	1421	1445	1463	639
35°	1177	1193	1235	1282	1311	736
45°	938	963	1025	1101	1142	723
55°	692	726	811	900	945	619
65°	454	494	590	679	726	450
75°	235	279	360	413	436	249
85°	58	74	85	83	83	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1639.8	1639.8	1639.8	1639.8	1639.8
2.5°	1673.3	1666.6	1646.5	1633.1	1626.3
5°	1633.1	1633.1	1650.9	1639.8	1626.3
7.5°	1619.6	1619.6	1619.6	1653.2	1619.6
10°	1601.8	1604.0	1606.2	1619.6	1606.2
12.5°	1581.7	1581.7	1586.1	1590.6	1592.8
15°	1550.4	1552.6	1561.6	1570.5	1575.0
17.5°	1516.9	1523.6	1534.8	1545.9	1554.9
20°	1476.7	1485.6	1499.0	1516.9	1525.8
22.5°	1434.2	1443.2	1461.0	1481.1	1496.8
25°	1389.5	1398.5	1420.8	1445.4	1463.3
27.5°	1338.2	1349.3	1376.1	1409.7	1427.5
30°	1286.8	1300.2	1331.5	1369.4	1389.5
32.5°	1233.2	1248.8	1284.5	1327.0	1351.6
35°	1177.3	1193.0	1235.4	1282.3	1311.4
37.5°	1119.2	1137.1	1184.0	1237.6	1268.9
40°	1058.9	1079.0	1132.6	1190.7	1226.5
42.5°	998.6	1020.9	1079.0	1148.3	1184.0
45°	938.3	962.9	1025.4	1101.4	1141.6
47.5°	875.7	904.8	969.6	1054.4	1094.7
50°	815.4	844.5	918.2	1005.3	1045.5
52.5°	752.9	786.4	864.6	953.9	996.4
55°	692.5	726.0	810.9	900.3	945.0
57.5°	632.2	665.7	755.1	846.7	891.4
60°	571.9	607.6	701.5	790.8	837.7
62.5°	511.6	549.6	645.6	737.2	781.9
65°	453.5	493.7	589.8	679.1	726.0
67.5°	397.7	440.1	533.9	621.1	668.0
70°	341.8	384.2	475.8	560.7	607.6
72.5°	288.2	330.6	420.0	495.9	531.7
75°	234.6	279.2	359.7	413.3	435.6
77.5°	183.2	227.9	297.1	332.9	357.4
80°	136.3	174.3	223.4	250.2	259.1
82.5°	93.8	125.1	156.4	163.1	167.5
85°	58.1	73.7	84.9	82.7	82.7
87.5°	26.8	29.0	24.6	17.9	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)