

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: P259486

Luminaire Tested: **22CZ-LD5-44-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259486  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-44-S-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4640.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

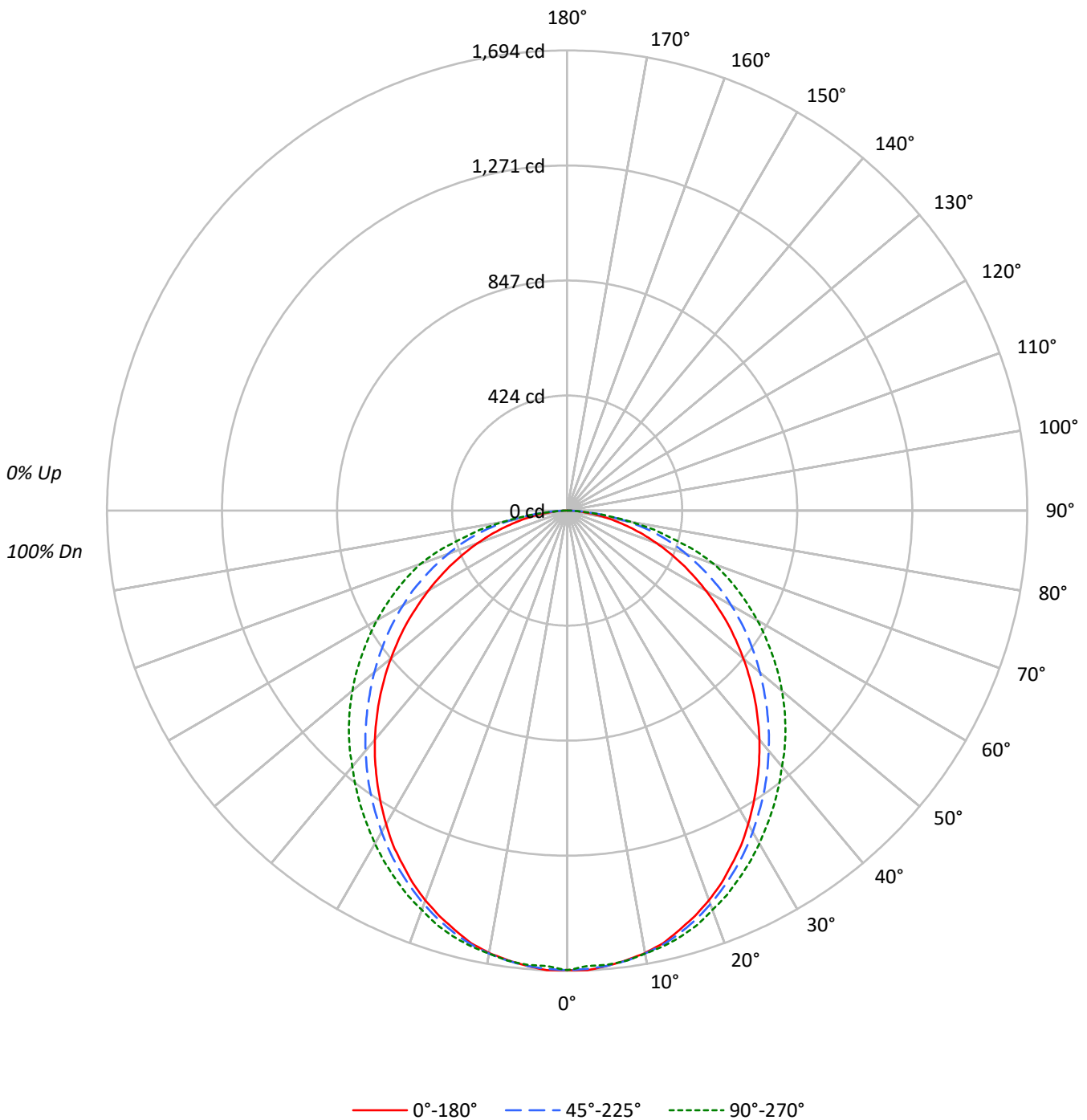
Input Watts (W): 35.433  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	4552	4552	4552
5°	4545	4545	4533
10°	4519	4525	4525
15°	4452	4483	4520
20°	4372	4416	4480
25°	4262	4334	4440
30°	4141	4245	4397
35°	4005	4151	4356
40°	3868	4055	4321
45°	3715	3961	4325
50°	3545	3881	4320
55°	3377	3817	4318
60°	3179	3754	4354
65°	2980	3704	4413
70°	2753	3665	4524
75°	2480	3638	4194
80°	2176	3384	3660
85°	1788	2547	2269



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.7	3.4
10°-20°	453.8	9.8
20°-30°	674.0	14.5
30°-40°	793.3	17.1
40°-50°	808.8	17.4
50°-60°	729.4	15.7
60°-70°	574.6	12.4
70°-80°	354.4	7.6
80°-90°	92.0	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°	1287.5	27.7
0°-40°	2080.8	44.8
0°-60°	3619.0	78.0
0°-90°	4640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4640.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1683	1685	1683	1680	1678	160
15°	1598	1605	1609	1618	1622	451
25°	1435	1444	1460	1484	1495	661
35°	1219	1232	1264	1304	1326	763
45°	976	992	1041	1103	1137	752
55°	720	744	814	887	920	642
65°	468	501	582	655	693	464
75°	238	279	350	390	403	254
85°	58	74	82	78	74	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1691.6	1691.6	1691.6	1691.6	1691.6
2.5°	1693.8	1693.8	1689.3	1684.9	1678.2
5°	1682.6	1684.9	1682.6	1680.4	1678.2
7.5°	1669.3	1671.5	1671.5	1671.5	1671.5
10°	1653.7	1655.9	1655.9	1655.9	1655.9
12.5°	1631.4	1633.6	1635.8	1638.1	1642.5
15°	1598.0	1604.6	1609.1	1618.0	1622.5
17.5°	1564.5	1571.2	1577.9	1589.0	1598.0
20°	1526.6	1531.1	1542.2	1555.6	1564.5
22.5°	1484.3	1491.0	1502.1	1519.9	1533.3
25°	1435.3	1444.2	1459.8	1484.3	1495.4
27.5°	1388.5	1395.1	1415.2	1441.9	1457.5
30°	1332.7	1341.7	1366.2	1399.6	1415.2
32.5°	1277.0	1288.2	1314.9	1352.8	1370.6
35°	1219.1	1232.5	1263.7	1303.8	1326.1
37.5°	1161.1	1174.5	1210.2	1254.7	1279.3
40°	1101.0	1114.3	1154.4	1203.5	1230.2
42.5°	1038.6	1054.2	1098.7	1154.4	1185.6
45°	976.2	991.8	1040.8	1103.2	1136.6
47.5°	911.5	929.4	982.8	1051.9	1085.4
50°	846.9	866.9	927.1	998.4	1031.9
52.5°	782.3	804.5	869.2	942.7	978.4
55°	719.9	744.4	813.5	887.0	920.4
57.5°	653.0	682.0	755.5	826.8	864.7
60°	590.6	621.8	697.6	768.9	809.0
62.5°	528.2	561.6	641.9	713.2	751.1
65°	468.0	501.4	581.7	655.2	693.1
67.5°	407.8	445.7	523.7	597.3	635.2
70°	349.9	390.0	465.8	537.1	575.0
72.5°	294.2	334.3	410.1	476.9	499.2
75°	238.5	278.6	349.9	390.0	403.4
77.5°	187.2	225.1	287.5	312.0	329.8
80°	140.4	173.8	218.4	234.0	236.2
82.5°	95.8	124.8	151.5	153.8	151.5
85°	57.9	73.5	82.5	78.0	73.5
87.5°	26.7	29.0	26.7	17.8	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)