

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: P260711

Luminaire Tested: **24CZ-LD5-35-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260711  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-35-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3229.0 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

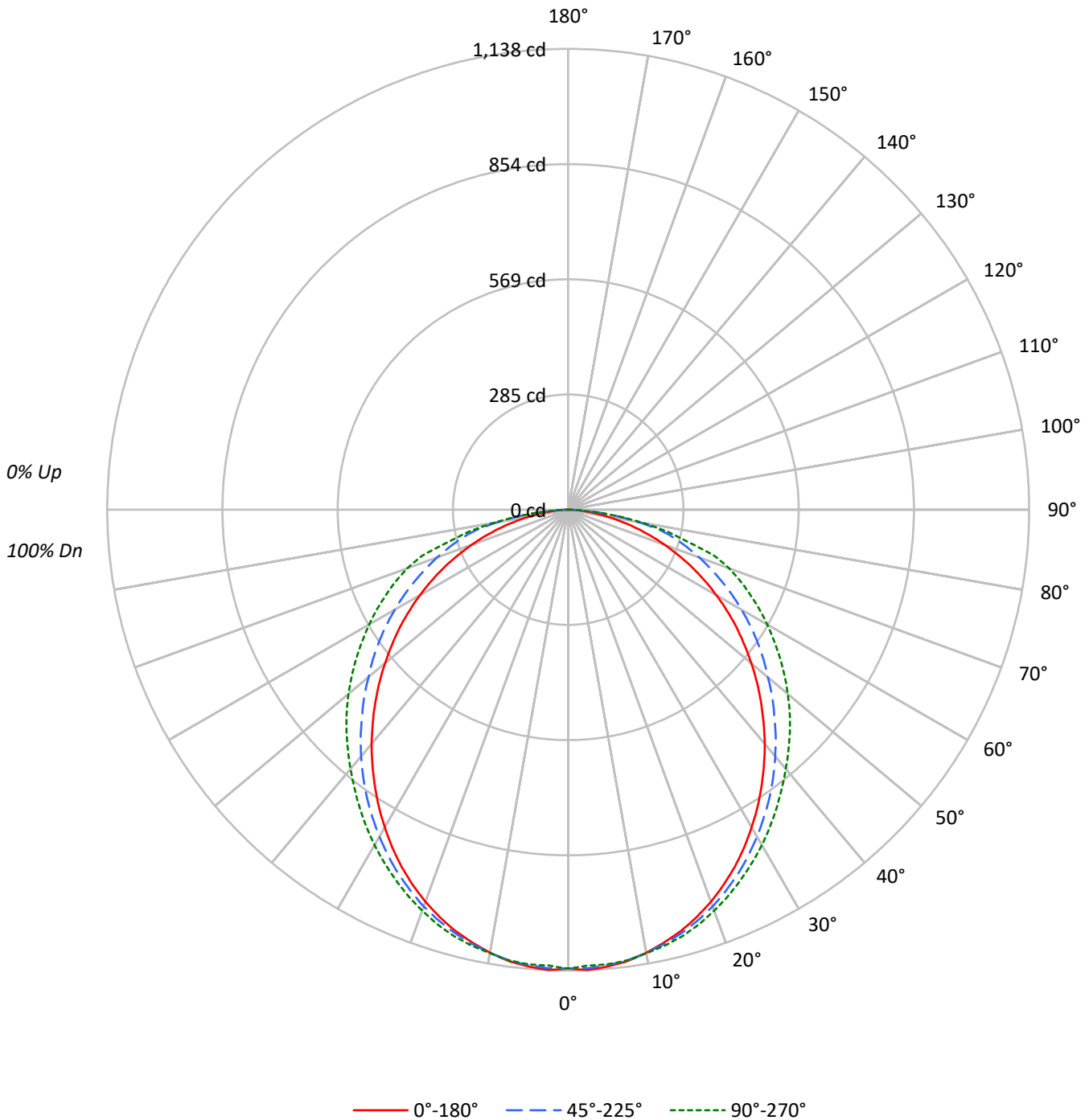
Input Watts (W): 24.18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P260711

CATALOG NUMBER: 24CZ-LD5-35-UNV-L82765-W2A1-U-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P260711

CATALOG NUMBER: 24CZ-LD5-35-UNV-L82765-W2A1-U-2700K

**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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	1525	1525	1525
5°	1529	1525	1522
10°	1518	1518	1520
15°	1500	1508	1518
20°	1475	1493	1509
25°	1444	1472	1497
30°	1407	1448	1486
35°	1367	1424	1475
40°	1326	1396	1468
45°	1281	1369	1473
50°	1236	1347	1481
55°	1190	1338	1496
60°	1136	1330	1526
65°	1077	1330	1577
70°	996	1352	1661
75°	891	1414	1580
80°	745	1354	1447
85°	563	1041	990



TEST NUMBER: P260711

CATALOG NUMBER: 24CZ-LD5-35-UNV-L82765-W2A1-U-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.1	3.3
10°-20°	304.8	9.4
20°-30°	455.6	14.1
30°-40°	540.5	16.7
40°-50°	556.3	17.2
50°-60°	510.4	15.8
60°-70°	412.6	12.8
70°-80°	267.8	8.3
80°-90°	73.8	2.3
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°	867.5	26.9
0°-40°	1408.0	43.6
0°-60°	2474.7	76.6
0°-90°	3229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3229.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1132	1124	1129	1128	1127	107
15°	1077	1072	1082	1087	1090	303
25°	973	974	992	1000	1008	448
35°	832	839	867	886	898	521
45°	673	684	720	754	774	520
55°	508	523	570	617	638	453
65°	338	358	418	473	495	334
75°	171	203	272	304	304	182
85°	36	62	67	65	64	45
90°	0	0	0	0	0	



TEST NUMBER: P260711

CATALOG NUMBER: 24CZ-LD5-35-UNV-L82765-W2A1-U-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1133.2	1133.2	1133.2	1133.2	1133.2
2.5°	1137.6	1128.8	1133.2	1132.1	1126.6
5°	1132.1	1124.4	1128.8	1127.7	1126.6
7.5°	1124.4	1116.6	1122.2	1121.0	1122.2
10°	1111.1	1104.5	1111.1	1112.2	1112.2
12.5°	1094.5	1089.0	1097.8	1100.0	1102.3
15°	1076.8	1072.4	1082.4	1086.8	1090.1
17.5°	1054.7	1051.4	1063.6	1069.1	1073.5
20°	1030.4	1029.3	1042.6	1048.1	1053.6
22.5°	1002.8	1002.8	1018.2	1024.9	1032.6
25°	972.9	974.0	991.7	1000.5	1008.3
27.5°	940.8	941.9	963.0	974.0	982.9
30°	905.5	909.9	932.0	946.4	956.3
32.5°	870.1	875.6	899.9	916.5	927.6
35°	832.5	839.1	866.8	885.6	897.7
37.5°	793.8	801.5	831.4	852.4	866.8
40°	755.1	764.0	794.9	819.2	835.8
42.5°	714.2	724.1	758.4	787.2	804.9
45°	673.3	684.3	719.7	754.0	773.9
47.5°	632.4	645.7	683.2	720.8	741.8
50°	590.4	603.6	643.4	686.6	707.6
52.5°	548.4	563.8	608.1	652.3	673.3
55°	507.5	522.9	570.5	616.9	637.9
57.5°	465.4	480.9	532.9	581.5	602.5
60°	422.3	440.0	494.2	543.9	567.2
62.5°	380.3	399.1	456.6	509.7	531.8
65°	338.3	358.2	417.9	473.2	495.3
67.5°	295.2	318.4	380.3	436.7	459.9
70°	253.2	278.6	343.8	400.2	422.3
72.5°	212.3	239.9	307.3	364.8	378.1
75°	171.4	203.4	272.0	304.0	304.0
77.5°	132.7	168.0	232.2	244.3	251.0
80°	96.2	134.9	174.7	189.1	186.8
82.5°	64.1	102.8	124.9	124.9	121.6
85°	36.5	61.9	67.4	65.2	64.1
87.5°	15.5	23.2	21.0	16.6	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)