

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: P263681

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263681  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3487.0 lumens  
Efficiency: N/A  
Efficacy: 96.6 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

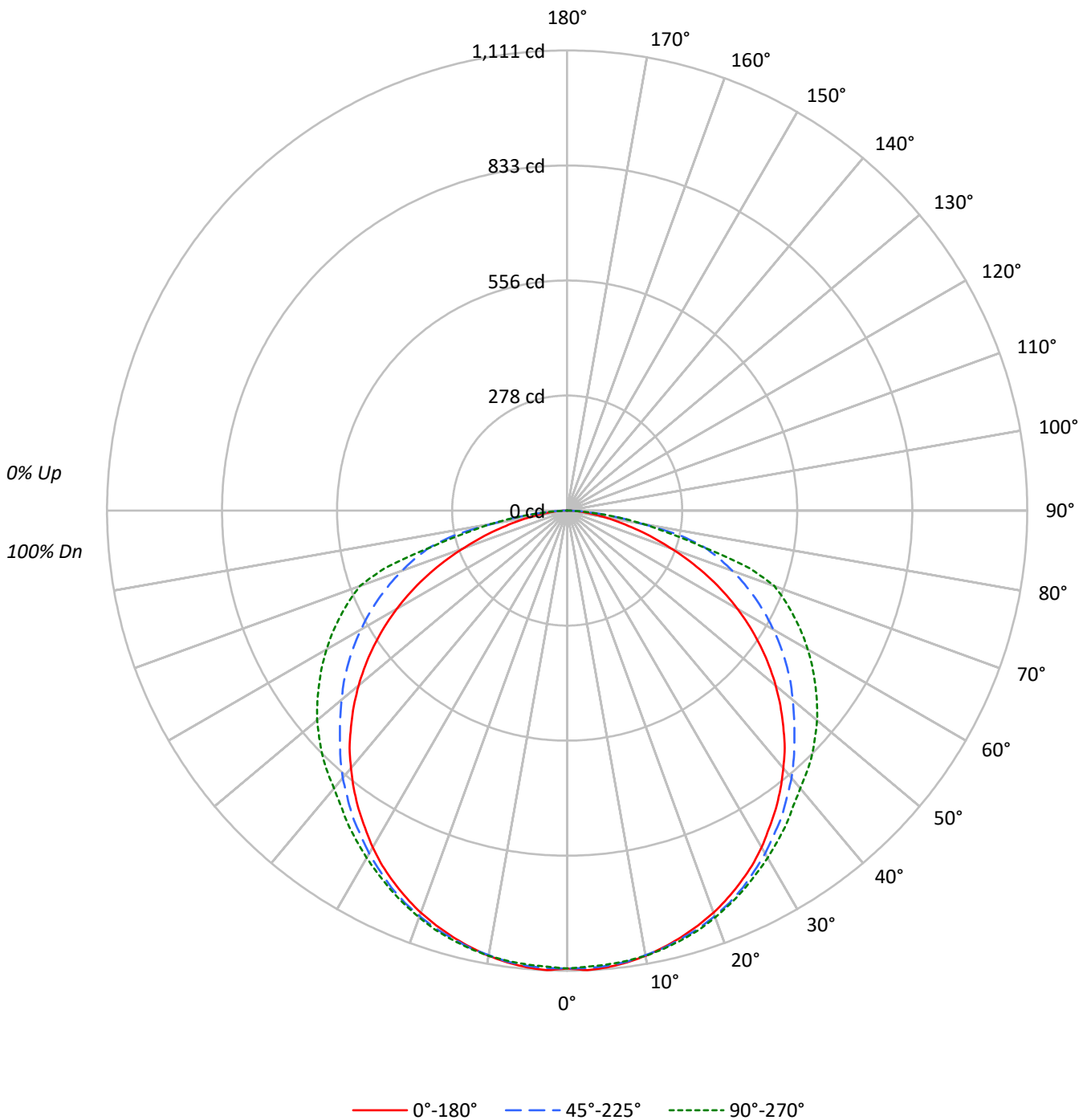
Input Watts (W): 36.084  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P263681

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P263681

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-4000K

**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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

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

	0°	45°	90°
0°	1487	1487	1487
5°	1495	1491	1486
10°	1492	1489	1492
15°	1485	1490	1494
20°	1480	1492	1497
25°	1470	1491	1498
30°	1459	1485	1504
35°	1443	1483	1517
40°	1426	1480	1538
45°	1404	1476	1591
50°	1376	1487	1649
55°	1337	1514	1715
60°	1280	1547	1806
65°	1191	1596	1924
70°	1054	1668	2093
75°	883	1785	1758
80°	705	1409	1463
85°	556	954	874



TEST NUMBER: P263681

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.8	3.0
10°-20°	301.7	8.7
20°-30°	460.9	13.2
30°-40°	563.5	16.2
40°-50°	603.1	17.3
50°-60°	578.5	16.6
60°-70°	488.5	14.0
70°-80°	312.2	9.0
80°-90°	73.8	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°	867.5	24.9
0°-40°	1430.9	41.0
0°-60°	2612.5	74.9
0°-90°	3487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3487.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1107	1100	1104	1102	1100	105
15°	1066	1062	1069	1073	1073	301
25°	990	989	1004	1008	1009	456
35°	879	886	903	915	924	549
45°	738	750	776	812	836	569
55°	570	589	645	704	731	509
65°	374	410	501	572	604	369
75°	170	242	343	350	338	183
85°	36	60	62	60	57	43
90°	0	0	0	0	0	



TEST NUMBER: P263681

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1105.4	1105.4	1105.4	1105.4	1105.4
2.5°	1110.6	1103.7	1105.4	1105.4	1102.0
5°	1107.1	1100.3	1103.7	1102.0	1100.3
7.5°	1100.3	1095.1	1098.5	1098.5	1096.8
10°	1091.7	1086.5	1090.0	1091.7	1091.7
12.5°	1079.7	1076.2	1081.4	1081.4	1083.1
15°	1065.9	1062.5	1069.4	1072.8	1072.8
17.5°	1050.5	1048.8	1057.3	1059.1	1060.8
20°	1033.3	1031.6	1041.9	1041.9	1045.3
22.5°	1012.7	1011.0	1024.7	1024.7	1028.2
25°	990.4	988.7	1004.1	1007.6	1009.3
27.5°	966.4	964.7	980.1	985.3	988.7
30°	938.9	938.9	956.1	962.9	968.1
32.5°	908.0	913.2	928.6	938.9	945.8
35°	878.8	885.7	902.9	914.9	923.5
37.5°	846.2	853.1	872.0	887.4	897.7
40°	811.9	820.5	842.8	860.0	875.4
42.5°	777.6	786.1	810.2	835.9	856.5
45°	738.1	750.1	775.8	811.9	835.9
47.5°	698.6	710.6	743.2	787.9	811.9
50°	657.4	671.1	710.6	762.1	787.9
52.5°	614.5	629.9	679.7	734.7	760.4
55°	569.9	588.7	645.4	703.8	731.2
57.5°	523.5	544.1	611.1	672.9	702.0
60°	475.5	501.2	575.0	640.2	671.1
62.5°	425.7	456.6	539.0	605.9	638.5
65°	374.2	410.2	501.2	571.6	604.2
67.5°	321.0	369.0	463.4	537.3	569.9
70°	267.8	324.4	424.0	499.5	532.1
72.5°	218.0	283.2	384.5	454.9	461.7
75°	169.9	242.0	343.3	350.2	338.1
77.5°	127.0	200.8	283.2	252.3	250.6
80°	91.0	161.3	181.9	187.1	188.8
82.5°	60.1	121.9	118.4	121.9	120.2
85°	36.0	60.1	61.8	60.1	56.6
87.5°	17.2	22.3	17.2	15.4	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)