

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: P230484

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P230484  
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-LD5-60-RDP-UNV-L930-CD1-U  
Description: CRUZE 2x4 LED TROFFER  
WITH RDP LENS  
Light Source: (168) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3326.8 lumens  
Efficiency: N/A  
Efficacy: 63.8 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

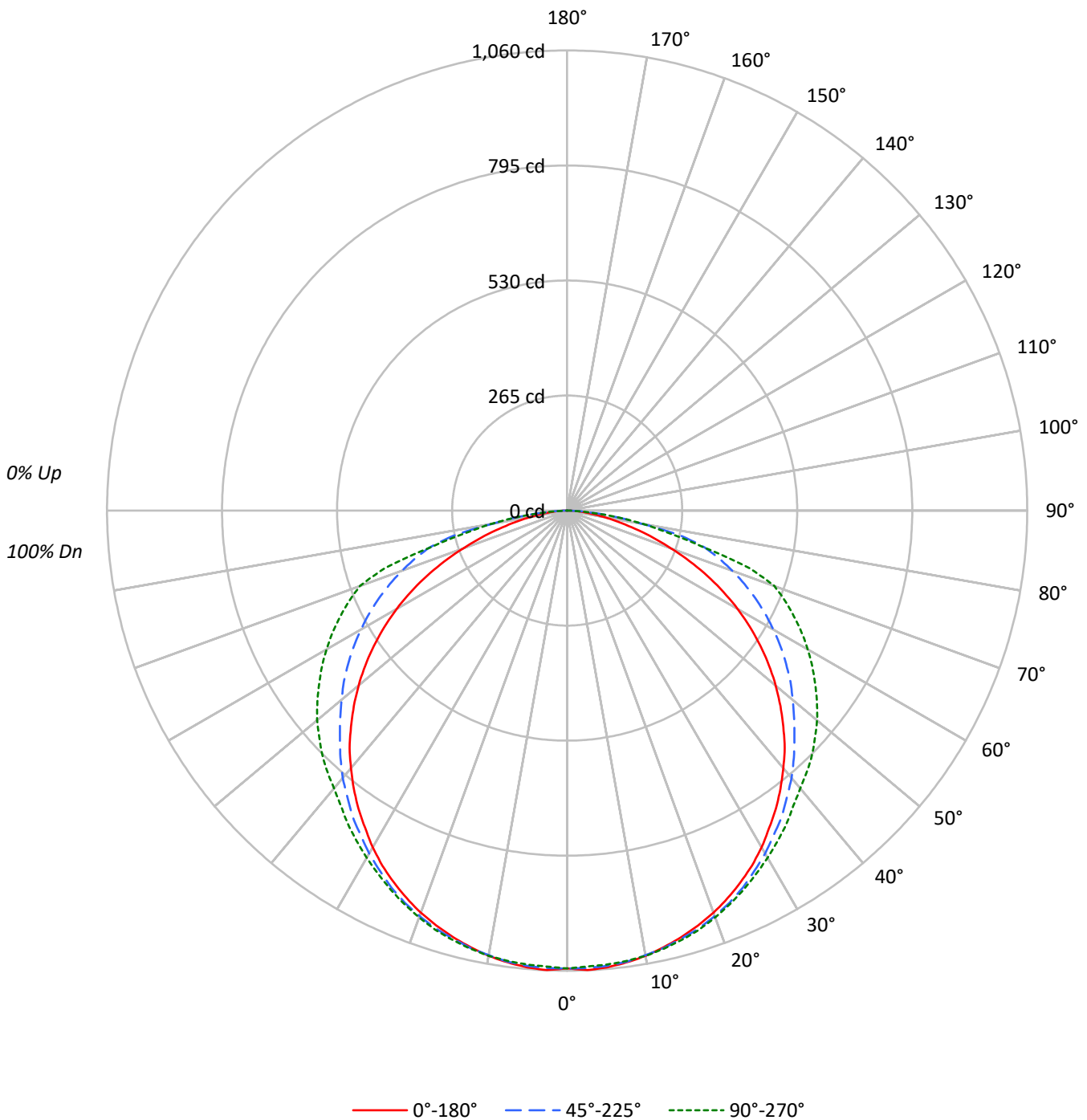
Input Watts (W): 52.17  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1419	1419	1419
5°	1427	1422	1418
10°	1423	1421	1423
15°	1416	1421	1426
20°	1412	1423	1428
25°	1403	1422	1430
30°	1392	1417	1435
35°	1377	1415	1447
40°	1361	1412	1467
45°	1340	1408	1517
50°	1313	1419	1573
55°	1275	1444	1636
60°	1221	1476	1723
65°	1137	1522	1835
70°	1005	1591	1997
75°	843	1703	1677
80°	673	1345	1395
85°	531	911	834



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.0	3.0
10°-20°	287.9	8.7
20°-30°	439.7	13.2
30°-40°	537.6	16.2
40°-50°	575.4	17.3
50°-60°	551.9	16.6
60°-70°	466.0	14.0
70°-80°	297.8	9.0
80°-90°	70.4	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°	827.6	24.9
0°-40°	1365.2	41.0
0°-60°	2492.5	74.9
0°-90°	3326.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3326.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1056	1050	1053	1051	1050	100
15°	1017	1014	1020	1024	1024	287
25°	945	943	958	961	963	435
35°	838	845	861	873	881	524
45°	704	716	740	775	798	543
55°	544	562	616	671	698	485
65°	357	391	478	545	576	352
75°	162	231	328	334	323	175
85°	34	57	59	57	54	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	1059.5	1053.0	1054.6	1054.6	1051.3
5°	1056.2	1049.7	1053.0	1051.3	1049.7
7.5°	1049.7	1044.8	1048.1	1048.1	1046.4
10°	1041.5	1036.6	1039.9	1041.5	1041.5
12.5°	1030.0	1026.8	1031.7	1031.7	1033.3
15°	1016.9	1013.7	1020.2	1023.5	1023.5
17.5°	1002.2	1000.6	1008.8	1010.4	1012.0
20°	985.8	984.2	994.0	994.0	997.3
22.5°	966.2	964.5	977.6	977.6	980.9
25°	944.9	943.2	958.0	961.3	962.9
27.5°	922.0	920.3	935.1	940.0	943.2
30°	895.8	895.8	912.1	918.7	923.6
32.5°	866.3	871.2	885.9	895.8	902.3
35°	838.4	845.0	861.4	872.8	881.0
37.5°	807.3	813.9	831.9	846.6	856.5
40°	774.6	782.8	804.1	820.4	835.2
42.5°	741.8	750.0	772.9	797.5	817.2
45°	704.2	715.6	740.2	774.6	797.5
47.5°	666.5	678.0	709.1	751.7	774.6
50°	627.2	640.3	678.0	727.1	751.7
52.5°	586.3	601.0	648.5	700.9	725.5
55°	543.7	561.7	615.7	671.4	697.6
57.5°	499.5	519.1	583.0	641.9	669.8
60°	453.6	478.2	548.6	610.8	640.3
62.5°	406.1	435.6	514.2	578.1	609.2
65°	357.0	391.4	478.2	545.3	576.4
67.5°	306.2	352.1	442.1	512.6	543.7
70°	255.5	309.5	404.5	476.5	507.7
72.5°	208.0	270.2	366.8	434.0	440.5
75°	162.1	230.9	327.5	334.1	322.6
77.5°	121.2	191.6	270.2	240.7	239.1
80°	86.8	153.9	173.6	178.5	180.1
82.5°	57.3	116.3	113.0	116.3	114.6
85°	34.4	57.3	59.0	57.3	54.0
87.5°	16.4	21.3	16.4	14.7	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)