

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: P225669

Luminaire Tested: **24AC-LD5-39-RDP-UNV-L835-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P225669  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35755)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24AC-LD5-39-RDP-UNV-L835-CD1-U  
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS  
Light Source: (168)3500K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3403.5 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

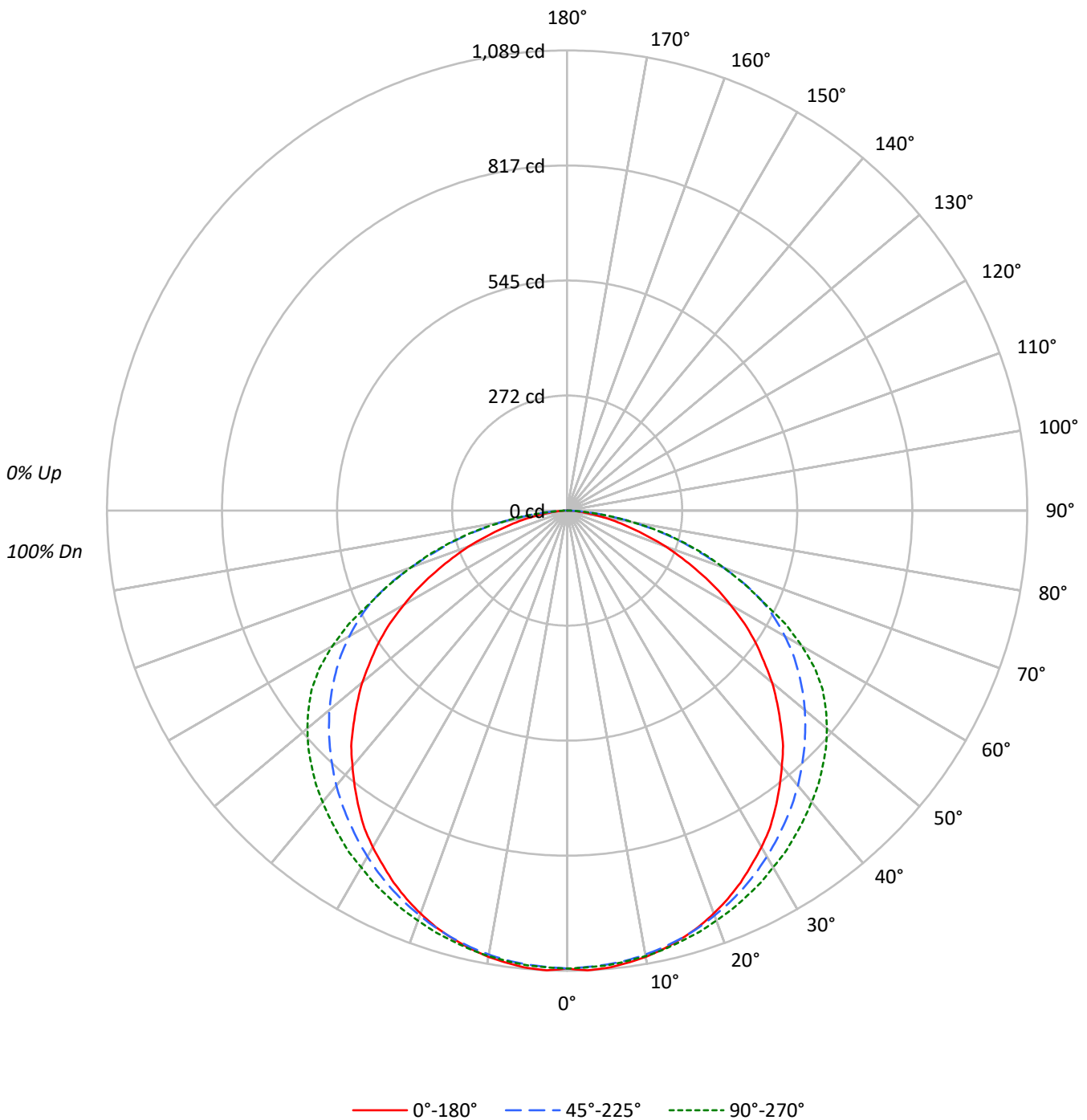
Input Watts (W): 32.94  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	31
8	59	45	37	31	58	45	36	30	43	36	30	42	35	30	41	35	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

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

	0°	45°	90°
0°	1458	1458	1458
5°	1467	1457	1459
10°	1465	1458	1463
15°	1460	1459	1468
20°	1453	1460	1478
25°	1442	1464	1494
30°	1429	1469	1514
35°	1412	1477	1544
40°	1388	1492	1581
45°	1360	1510	1627
50°	1325	1537	1680
55°	1278	1569	1731
60°	1200	1601	1725
65°	1096	1627	1624
70°	973	1546	1546
75°	793	1425	1443
80°	611	1230	1210
85°	425	807	753



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	3.0
10°-20°	296.1	8.7
20°-30°	455.2	13.4
30°-40°	563.1	16.5
40°-50°	609.7	17.9
50°-60°	584.8	17.2
60°-70°	464.1	13.6
70°-80°	266.6	7.8
80°-90°	61.2	1.8
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°	854.0	25.1
0°-40°	1417.1	41.6
0°-60°	2611.6	76.7
0°-90°	3403.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3403.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1084	1084	1084	1084	1084	
5°	1086	1081	1078	1077	1080	103
15°	1048	1046	1047	1049	1054	296
25°	971	974	986	999	1007	447
35°	859	871	899	927	940	537
45°	715	742	794	838	855	551
55°	545	592	669	719	738	485
65°	344	426	511	518	510	342
75°	152	246	274	277	278	165
85°	28	48	52	50	49	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1083.8	1083.8	1083.8	1083.8	1083.8
2.5°	1089.1	1083.8	1081.1	1079.4	1082.0
5°	1086.5	1081.1	1078.5	1076.7	1080.2
7.5°	1080.2	1075.8	1074.0	1073.1	1075.8
10°	1072.3	1067.8	1066.9	1066.1	1070.5
12.5°	1061.6	1058.1	1058.1	1058.1	1063.4
15°	1048.3	1045.7	1047.4	1049.2	1053.6
17.5°	1033.2	1030.6	1035.0	1038.6	1044.8
20°	1014.6	1014.6	1019.9	1025.3	1032.4
22.5°	994.2	996.0	1004.0	1012.8	1020.8
25°	971.2	973.8	986.2	998.6	1006.6
27.5°	945.4	950.8	966.7	982.7	992.4
30°	919.7	925.0	945.4	964.9	974.7
32.5°	892.2	898.4	923.3	946.3	959.6
35°	859.4	870.9	899.3	926.8	940.1
37.5°	825.7	841.7	875.4	906.4	920.6
40°	790.2	809.7	849.6	885.1	900.2
42.5°	756.5	776.9	822.2	862.1	879.8
45°	714.8	742.3	793.8	838.1	855.0
47.5°	674.0	706.9	764.5	811.5	831.0
50°	633.2	669.6	734.4	785.8	802.6
52.5°	587.1	631.5	702.4	753.9	771.6
55°	544.6	592.4	668.7	719.3	737.9
57.5°	497.6	551.7	634.1	683.8	695.3
60°	446.1	510.0	595.1	637.7	641.2
62.5°	397.3	469.2	555.2	581.8	582.7
65°	344.1	425.7	510.9	517.9	510.0
67.5°	294.5	379.6	455.9	450.5	453.2
70°	247.4	336.1	392.9	395.6	392.9
72.5°	196.0	290.9	330.8	337.0	337.9
75°	152.5	245.7	274.1	276.7	277.6
77.5°	116.2	196.9	213.7	218.2	220.8
80°	78.9	137.5	158.8	160.5	156.1
82.5°	51.4	88.7	101.1	101.1	100.2
85°	27.5	47.9	52.3	49.7	48.8
87.5°	9.8	14.2	16.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)