

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: P225660

Luminaire Tested: **24AC-LD5-39-RDP-UNV-L830-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: P225660  
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-L830-CD1-U  
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS  
Light Source: (168)3000K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3273.7 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

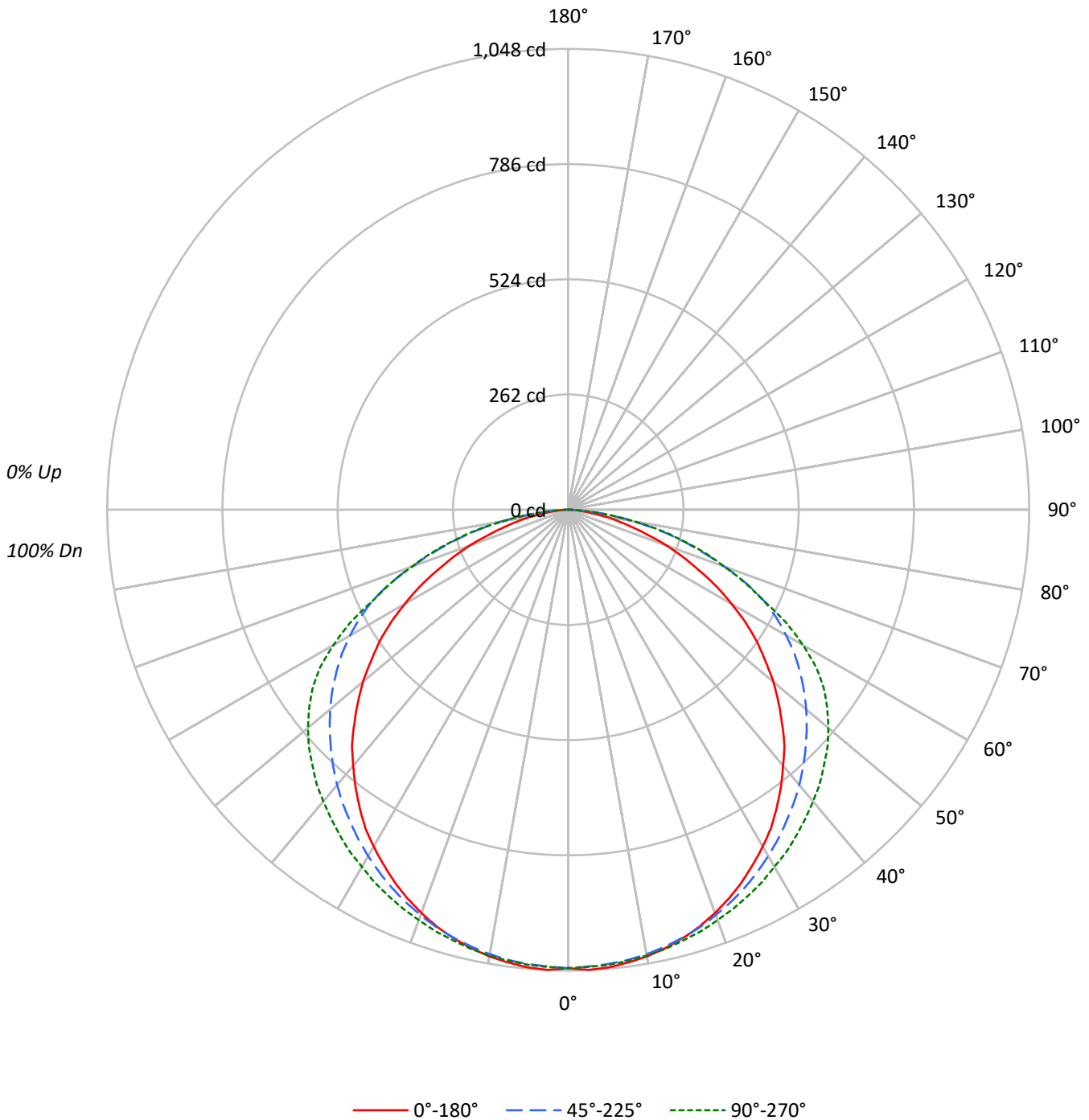
Input Watts (W): 32.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1403	1403	1403
5°	1411	1401	1403
10°	1409	1402	1407
15°	1405	1403	1412
20°	1397	1405	1422
25°	1387	1408	1437
30°	1374	1413	1457
35°	1358	1421	1485
40°	1335	1435	1521
45°	1308	1453	1565
50°	1275	1478	1616
55°	1229	1509	1665
60°	1155	1540	1660
65°	1054	1564	1562
70°	936	1487	1487
75°	763	1370	1388
80°	588	1183	1163
85°	408	777	724



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.8	3.0
10°-20°	284.8	8.7
20°-30°	437.8	13.4
30°-40°	541.7	16.5
40°-50°	586.4	17.9
50°-60°	562.4	17.2
60°-70°	446.4	13.6
70°-80°	256.4	7.8
80°-90°	58.9	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°	821.4	25.1
0°-40°	1363.1	41.6
0°-60°	2512.0	76.7
0°-90°	3273.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1045	1040	1037	1036	1039	99
15°	1008	1006	1008	1009	1013	285
25°	934	937	949	961	968	430
35°	827	838	865	892	904	517
45°	688	714	764	806	822	530
55°	524	570	643	692	710	466
65°	331	410	491	498	490	329
75°	147	236	264	266	267	159
85°	26	46	50	48	47	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1042.5	1042.5	1042.5	1042.5	1042.5
2.5°	1047.6	1042.5	1039.9	1038.2	1040.7
5°	1045.0	1039.9	1037.3	1035.6	1039.0
7.5°	1039.0	1034.8	1033.1	1032.2	1034.8
10°	1031.4	1027.1	1026.2	1025.4	1029.7
12.5°	1021.1	1017.7	1017.7	1017.7	1022.8
15°	1008.3	1005.8	1007.5	1009.2	1013.4
17.5°	993.8	991.3	995.5	998.9	1004.9
20°	975.9	975.9	981.0	986.2	993.0
22.5°	956.3	958.0	965.7	974.2	981.9
25°	934.1	936.7	948.6	960.6	968.2
27.5°	909.4	914.5	929.8	945.2	954.6
30°	884.6	889.8	909.4	928.1	937.5
32.5°	858.2	864.2	888.0	910.2	923.0
35°	826.6	837.7	865.0	891.5	904.3
37.5°	794.2	809.6	842.0	871.8	885.5
40°	760.1	778.9	817.2	851.4	865.9
42.5°	727.7	747.3	790.8	829.2	846.2
45°	687.6	714.0	763.5	806.2	822.4
47.5°	648.3	679.9	735.3	780.6	799.3
50°	609.1	644.1	706.3	755.8	772.0
52.5°	564.7	607.4	675.6	725.1	742.2
55°	523.8	569.9	643.2	691.8	709.8
57.5°	478.6	530.6	609.9	657.7	668.8
60°	429.1	490.5	572.4	613.4	616.8
62.5°	382.2	451.3	534.0	559.6	560.5
65°	331.0	409.5	491.4	498.2	490.5
67.5°	283.2	365.1	438.5	433.4	435.9
70°	238.0	323.3	377.9	380.5	377.9
72.5°	188.5	279.8	318.2	324.2	325.0
75°	146.7	236.3	263.6	266.2	267.0
77.5°	111.8	189.4	205.6	209.9	212.4
80°	75.9	132.2	152.7	154.4	150.1
82.5°	49.5	85.3	97.3	97.3	96.4
85°	26.4	46.1	50.3	47.8	46.9
87.5°	9.4	13.6	15.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)