

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: P229797

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-36-RDP-UNV-L840-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3027.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

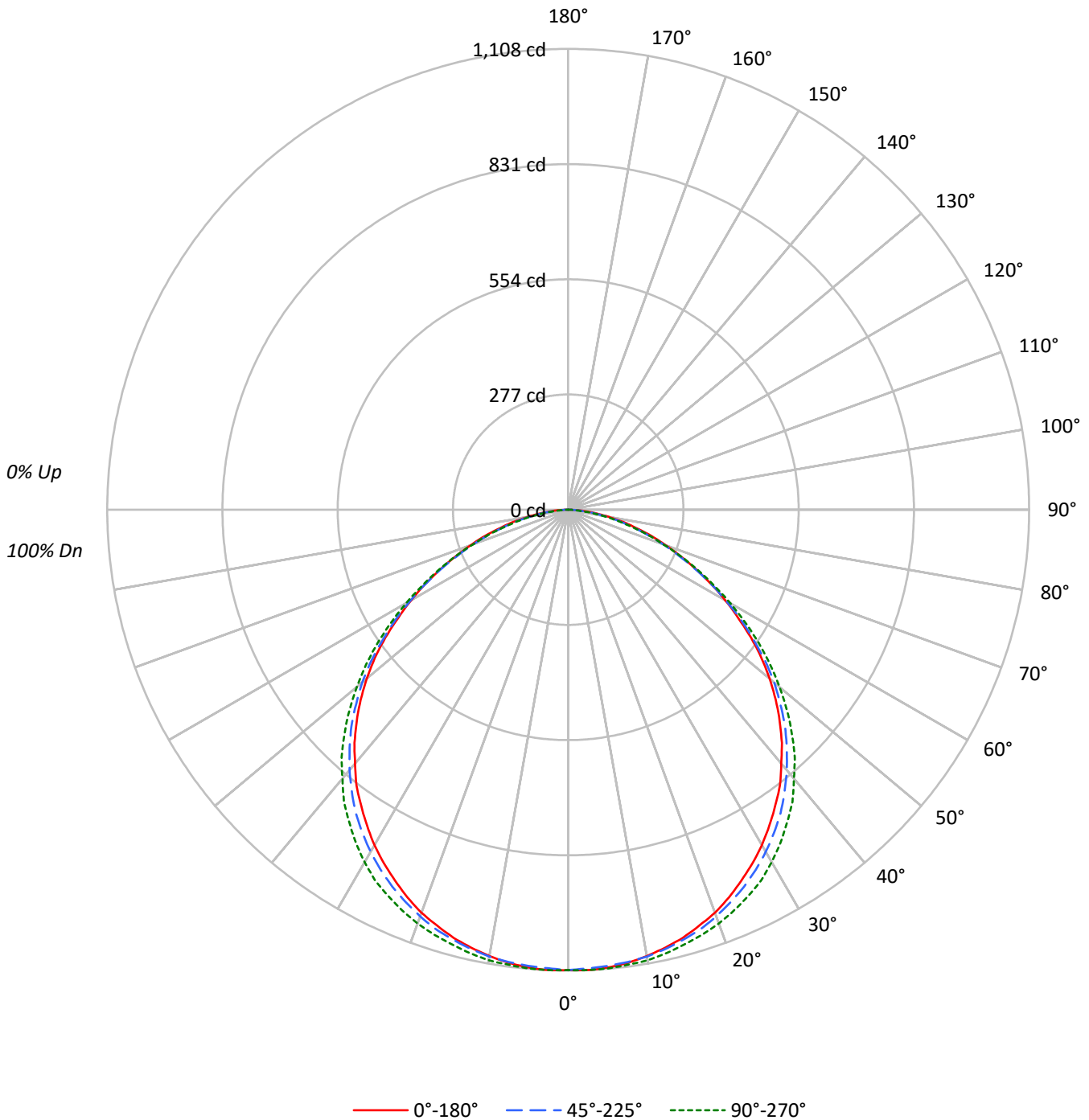
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1696	1696	1696
5°	1698	1693	1702
10°	1695	1697	1711
15°	1690	1697	1715
20°	1681	1696	1726
25°	1663	1690	1731
30°	1647	1680	1730
35°	1623	1664	1716
40°	1593	1635	1688
45°	1557	1597	1647
50°	1505	1541	1581
55°	1432	1451	1493
60°	1337	1344	1379
65°	1228	1220	1249
70°	1116	1085	1090
75°	992	938	931
80°	861	770	750
85°	706	545	424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	3.5
10°-20°	302.7	10.0
20°-30°	462.0	15.3
30°-40°	557.0	18.4
40°-50°	568.0	18.8
50°-60°	486.1	16.1
60°-70°	334.8	11.1
70°-80°	171.7	5.7
80°-90°	40.0	1.3
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°	869.6	28.7
0°-40°	1426.6	47.1
0°-60°	2480.6	81.9
0°-90°	3027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1105	1102	1101	1105	1107	105
15°	1066	1064	1070	1078	1082	301
25°	984	988	1000	1017	1024	454
35°	868	872	890	910	918	543
45°	719	720	737	756	760	554
55°	536	533	543	555	559	478
65°	339	331	336	339	344	337
75°	168	161	158	158	157	181
85°	40	36	31	28	24	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.0	1107.0	1107.0	1107.0	1107.0
2.5°	1108.1	1105.8	1103.5	1105.8	1108.1
5°	1104.7	1102.4	1101.2	1104.7	1107.0
7.5°	1098.9	1096.7	1096.7	1101.2	1103.5
10°	1089.8	1088.6	1090.9	1095.5	1100.1
12.5°	1078.3	1078.3	1081.7	1087.5	1092.1
15°	1065.6	1064.5	1070.2	1078.3	1081.7
17.5°	1048.4	1049.6	1057.6	1066.8	1071.4
20°	1031.2	1032.3	1040.4	1053.0	1058.8
22.5°	1009.4	1011.7	1020.9	1036.9	1042.7
25°	984.1	987.6	1000.2	1017.4	1024.3
27.5°	958.9	962.3	976.1	995.6	1004.8
30°	931.3	935.9	949.7	970.3	978.4
32.5°	900.3	903.7	921.0	941.6	949.7
35°	868.1	871.6	890.0	909.5	917.5
37.5°	836.0	836.0	854.4	877.3	885.4
40°	796.9	798.1	817.6	839.4	844.0
42.5°	760.2	760.2	777.4	798.1	806.1
45°	718.9	720.0	737.2	755.6	760.2
47.5°	676.4	676.4	691.3	708.5	713.1
50°	631.6	629.3	646.5	660.3	663.7
52.5°	585.6	582.2	596.0	607.5	612.1
55°	536.3	532.8	543.2	554.6	559.2
57.5°	484.6	480.0	491.5	501.8	504.1
60°	436.4	429.5	438.7	444.4	450.1
62.5°	388.1	380.1	387.0	390.4	395.0
65°	338.8	330.7	336.5	338.8	344.5
67.5°	291.7	285.9	287.1	290.5	292.8
70°	249.2	242.3	242.3	242.3	243.4
72.5°	210.1	199.8	198.7	199.8	199.8
75°	167.7	160.8	158.5	158.5	157.3
77.5°	134.4	125.2	124.0	121.7	119.4
80°	97.6	89.6	87.3	86.1	85.0
82.5°	67.8	60.9	58.6	56.3	52.8
85°	40.2	35.6	31.0	27.6	24.1
87.5°	14.9	13.8	11.5	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)