

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: P229818

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229818
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-LD5-42-RDP-UNV-L935-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3004.0 lumens
Efficiency: N/A
Efficacy: 96.3 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

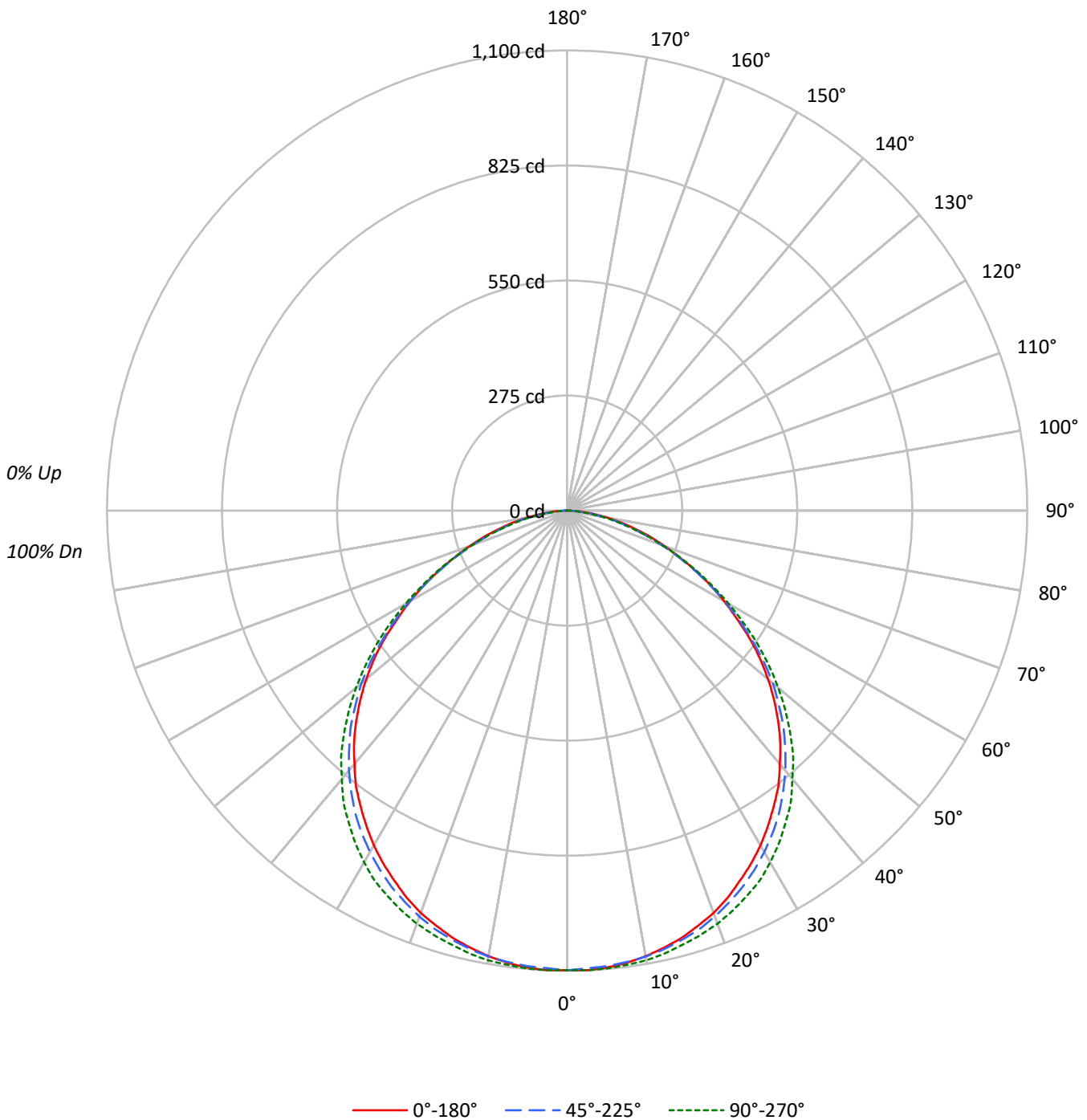
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1683	1683	1683
5°	1686	1680	1689
10°	1682	1684	1698
15°	1677	1684	1702
20°	1668	1683	1713
25°	1650	1677	1718
30°	1635	1667	1717
35°	1611	1651	1702
40°	1581	1622	1675
45°	1545	1585	1634
50°	1494	1529	1570
55°	1421	1439	1482
60°	1326	1333	1368
65°	1218	1210	1239
70°	1107	1077	1082
75°	985	931	924
80°	855	764	744
85°	701	541	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	3.5
10°-20°	300.4	10.0
20°-30°	458.5	15.3
30°-40°	552.7	18.4
40°-50°	563.6	18.8
50°-60°	482.4	16.1
60°-70°	332.3	11.1
70°-80°	170.3	5.7
80°-90°	39.7	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°	863.0	28.7
0°-40°	1415.7	47.1
0°-60°	2461.7	81.9
0°-90°	3004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1096	1094	1093	1096	1099	104
15°	1058	1056	1062	1070	1074	298
25°	977	980	993	1010	1016	450
35°	862	865	883	903	910	539
45°	713	714	732	750	754	550
55°	532	529	539	550	555	475
65°	336	328	334	336	342	334
75°	166	160	157	157	156	179
85°	40	35	31	27	24	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1098.6	1098.6	1098.6	1098.6	1098.6
2.5°	1099.7	1097.4	1095.2	1097.4	1099.7
5°	1096.3	1094.0	1092.9	1096.3	1098.6
7.5°	1090.6	1088.3	1088.3	1092.9	1095.2
10°	1081.5	1080.3	1082.6	1087.2	1091.7
12.5°	1070.1	1070.1	1073.5	1079.2	1083.8
15°	1057.5	1056.4	1062.1	1070.1	1073.5
17.5°	1040.5	1041.6	1049.6	1058.7	1063.2
20°	1023.4	1024.5	1032.5	1045.0	1050.7
22.5°	1001.7	1004.0	1013.1	1029.1	1034.8
25°	976.6	980.1	992.6	1009.7	1016.5
27.5°	951.6	955.0	968.7	988.0	997.1
30°	924.2	928.8	942.4	963.0	970.9
32.5°	893.4	896.9	914.0	934.5	942.4
35°	861.5	865.0	883.2	902.6	910.5
37.5°	829.6	829.6	847.9	870.7	878.6
40°	790.9	792.0	811.4	833.0	837.6
42.5°	754.4	754.4	771.5	792.0	800.0
45°	713.4	714.5	731.6	749.9	754.4
47.5°	671.2	671.2	686.0	703.1	707.7
50°	626.8	624.5	641.6	655.3	658.7
52.5°	581.2	577.8	591.5	602.8	607.4
55°	532.2	528.8	539.0	550.4	555.0
57.5°	480.9	476.4	487.7	498.0	500.3
60°	433.0	426.2	435.3	441.0	446.7
62.5°	385.2	377.2	384.0	387.5	392.0
65°	336.2	328.2	333.9	336.2	341.9
67.5°	289.5	283.8	284.9	288.3	290.6
70°	247.3	240.5	240.5	240.5	241.6
72.5°	208.5	198.3	197.2	198.3	198.3
75°	166.4	159.5	157.3	157.3	156.1
77.5°	133.3	124.2	123.1	120.8	118.5
80°	96.9	88.9	86.6	85.5	84.3
82.5°	67.2	60.4	58.1	55.8	52.4
85°	39.9	35.3	30.8	27.4	23.9
87.5°	14.8	13.7	11.4	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)