

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: P229808

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229808
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-L930-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2896.0 lumens
Efficiency: N/A
Efficacy: 92.8 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

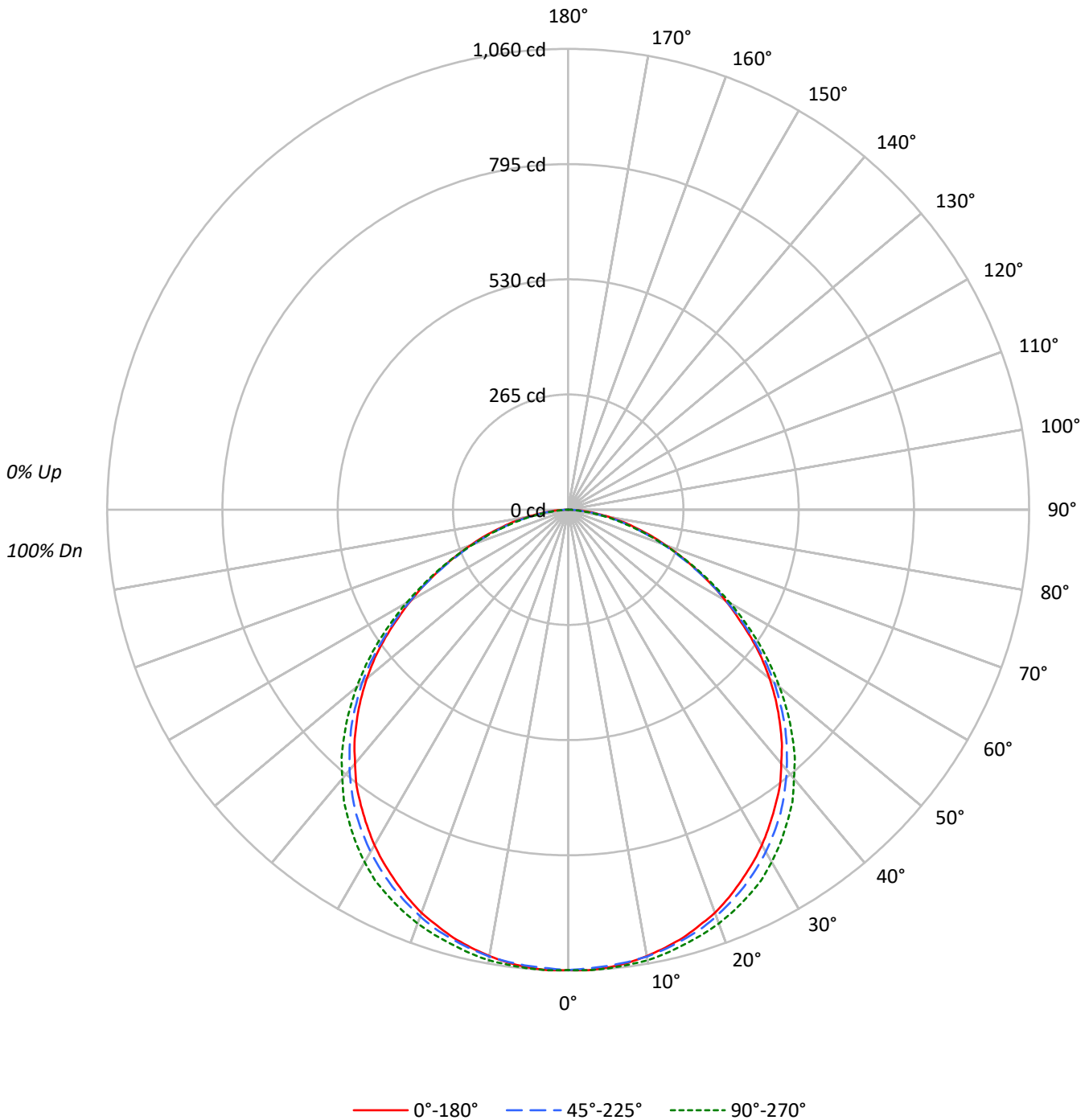
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1622	1622	1622
5°	1625	1620	1628
10°	1622	1623	1637
15°	1617	1624	1641
20°	1608	1622	1651
25°	1591	1617	1656
30°	1576	1607	1655
35°	1553	1592	1641
40°	1524	1564	1615
45°	1490	1528	1575
50°	1440	1474	1513
55°	1370	1388	1429
60°	1279	1286	1319
65°	1175	1167	1195
70°	1068	1038	1043
75°	949	897	891
80°	824	737	717
85°	677	522	406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	3.5
10°-20°	289.6	10.0
20°-30°	442.0	15.3
30°-40°	532.8	18.4
40°-50°	543.4	18.8
50°-60°	465.0	16.1
60°-70°	320.3	11.1
70°-80°	164.2	5.7
80°-90°	38.2	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°	832.0	28.7
0°-40°	1364.8	47.1
0°-60°	2373.2	81.9
0°-90°	2896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1057	1055	1054	1057	1059	100
15°	1020	1018	1024	1032	1035	288
25°	942	945	957	973	980	434
35°	831	834	851	870	878	520
45°	688	689	705	723	727	530
55°	513	510	520	531	535	458
65°	324	316	322	324	330	322
75°	160	154	152	152	150	173
85°	38	34	30	26	23	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.1	1059.1	1059.1	1059.1	1059.1
2.5°	1060.2	1058.0	1055.8	1058.0	1060.2
5°	1056.9	1054.7	1053.6	1056.9	1059.1
7.5°	1051.4	1049.2	1049.2	1053.6	1055.8
10°	1042.6	1041.5	1043.7	1048.1	1052.5
12.5°	1031.6	1031.6	1034.9	1040.4	1044.8
15°	1019.5	1018.4	1023.9	1031.6	1034.9
17.5°	1003.0	1004.1	1011.8	1020.6	1025.0
20°	986.6	987.7	995.4	1007.4	1012.9
22.5°	965.7	967.9	976.7	992.1	997.6
25°	941.5	944.8	956.9	973.4	980.0
27.5°	917.4	920.7	933.8	952.5	961.3
30°	891.0	895.4	908.6	928.3	936.0
32.5°	861.3	864.6	881.1	900.9	908.6
35°	830.6	833.9	851.4	870.1	877.8
37.5°	799.8	799.8	817.4	839.4	847.0
40°	762.4	763.5	782.2	803.1	807.5
42.5°	727.3	727.3	743.8	763.5	771.2
45°	687.7	688.8	705.3	722.9	727.3
47.5°	647.1	647.1	661.4	677.9	682.2
50°	604.2	602.0	618.5	631.7	635.0
52.5°	560.3	557.0	570.2	581.2	585.6
55°	513.1	509.8	519.7	530.6	535.0
57.5°	463.6	459.2	470.2	480.1	482.3
60°	417.5	410.9	419.7	425.2	430.7
62.5°	371.3	363.6	370.2	373.5	377.9
65°	324.1	316.4	321.9	324.1	329.6
67.5°	279.1	273.6	274.7	278.0	280.2
70°	238.4	231.8	231.8	231.8	232.9
72.5°	201.0	191.2	190.1	191.2	191.2
75°	160.4	153.8	151.6	151.6	150.5
77.5°	128.5	119.8	118.7	116.5	114.3
80°	93.4	85.7	83.5	82.4	81.3
82.5°	64.8	58.2	56.0	53.8	50.5
85°	38.5	34.1	29.7	26.4	23.1
87.5°	14.3	13.2	11.0	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)