

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: P229704

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-5)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-20-RDP-UNV-L935-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (126)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1356.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

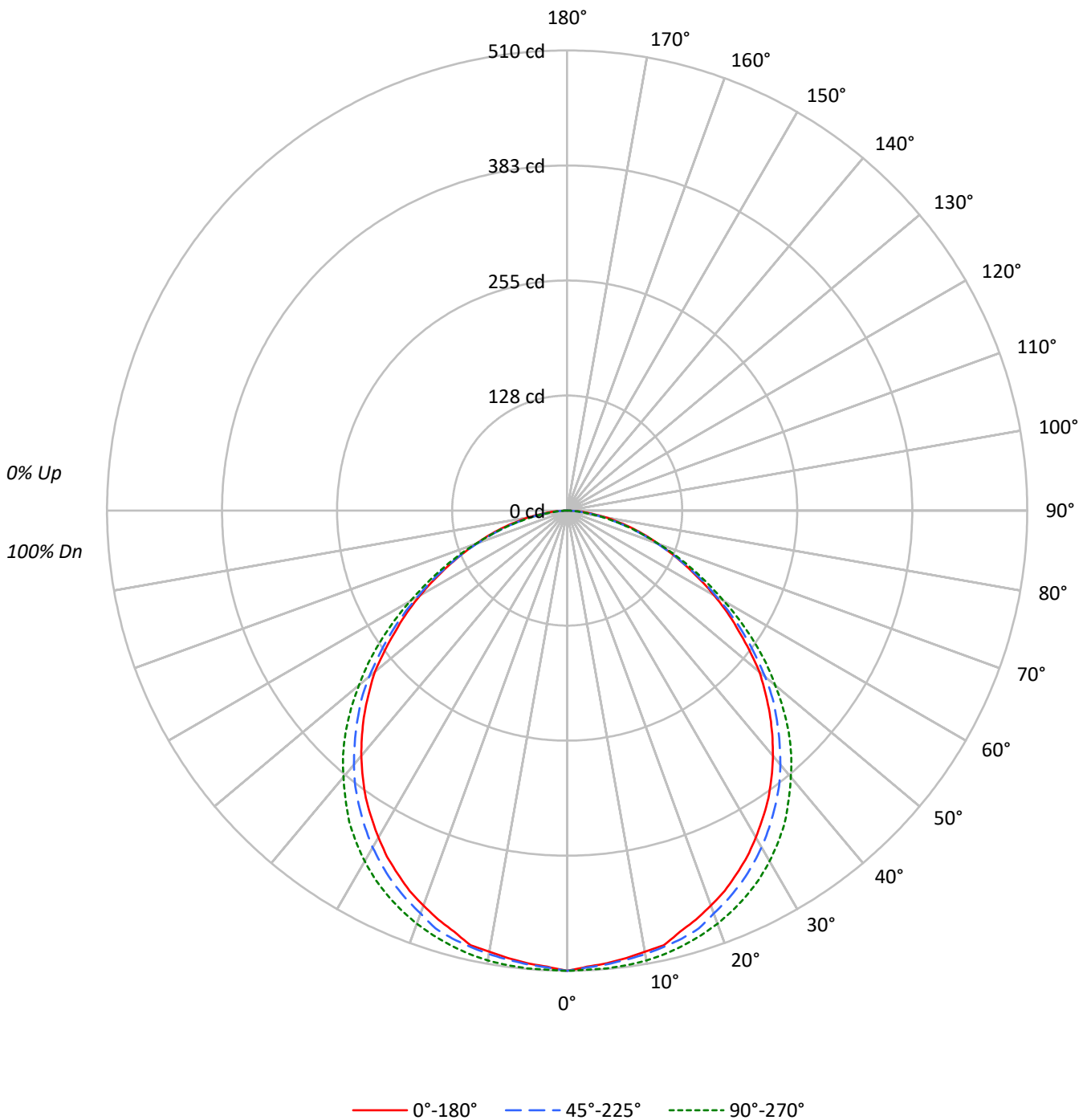
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1634	1634	1634
5°	1619	1623	1637
10°	1614	1623	1647
15°	1602	1629	1654
20°	1588	1620	1660
25°	1570	1611	1664
30°	1547	1594	1659
35°	1521	1569	1646
40°	1484	1537	1612
45°	1438	1489	1573
50°	1387	1426	1500
55°	1294	1337	1410
60°	1205	1228	1287
65°	1103	1112	1158
70°	999	984	1010
75°	913	849	859
80°	813	695	673
85°	647	470	412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	3.5
10°-20°	138.5	10.2
20°-30°	210.5	15.5
30°-40°	251.9	18.6
40°-50°	254.4	18.8
50°-60°	214.6	15.8
60°-70°	146.5	10.8
70°-80°	74.3	5.5
80°-90°	17.1	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°	397.1	29.3
0°-40°	649.0	47.9
0°-60°	1118.0	82.4
0°-90°	1356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	504	504	505	507	509	48
15°	483	485	491	495	499	137
25°	444	448	456	466	471	205
35°	389	392	401	414	421	243
45°	318	319	329	342	347	245
55°	232	231	239	248	253	208
65°	146	144	147	150	153	145
75°	74	69	69	68	69	78
85°	18	15	13	12	11	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.1	510.1	510.1	510.1	510.1
2.5°	506.0	506.0	506.8	509.7	509.3
5°	503.6	503.6	504.8	507.2	509.3
7.5°	500.4	500.8	502.0	505.6	508.0
10°	496.4	496.8	499.2	502.8	506.4
12.5°	493.6	494.0	495.2	499.6	503.2
15°	483.2	485.2	491.2	494.8	498.8
17.5°	475.2	477.6	485.6	488.8	493.6
20°	465.9	468.8	475.2	482.4	487.2
22.5°	456.3	459.5	465.9	474.4	479.6
25°	444.3	448.3	455.9	465.5	470.8
27.5°	432.3	436.3	443.9	457.1	460.7
30°	418.2	422.6	431.1	443.9	448.7
32.5°	403.8	407.8	416.6	429.9	435.5
35°	389.0	392.2	401.4	413.8	421.0
37.5°	372.1	375.3	385.7	397.8	403.4
40°	354.9	357.3	367.7	379.7	385.7
42.5°	336.4	338.8	348.5	360.9	367.7
45°	317.6	319.2	328.8	341.6	347.3
47.5°	297.5	299.1	309.2	319.6	324.8
50°	278.3	277.5	286.3	295.9	301.1
52.5°	254.6	255.0	262.6	271.9	277.9
55°	231.8	231.4	239.4	248.2	252.6
57.5°	210.5	208.9	215.7	221.7	227.0
60°	188.1	186.5	191.7	198.1	200.9
62.5°	166.4	164.4	169.6	173.2	176.0
65°	145.6	143.6	146.8	149.6	152.8
67.5°	125.9	123.5	126.3	127.9	130.3
70°	106.7	104.7	105.1	107.1	107.9
72.5°	90.2	86.2	86.6	86.6	87.8
75°	73.8	69.4	68.6	68.2	69.4
77.5°	57.3	53.7	52.5	52.1	52.1
80°	44.1	39.3	37.7	36.5	36.5
82.5°	28.9	27.3	24.5	22.9	22.1
85°	17.6	15.2	12.8	11.6	11.2
87.5°	6.8	5.6	4.8	4.8	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)