

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: P229532

Luminaire Tested: **14RLN-LD5-23-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36064)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-23-UNV-L935-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR
Light Source: (112)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1991.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

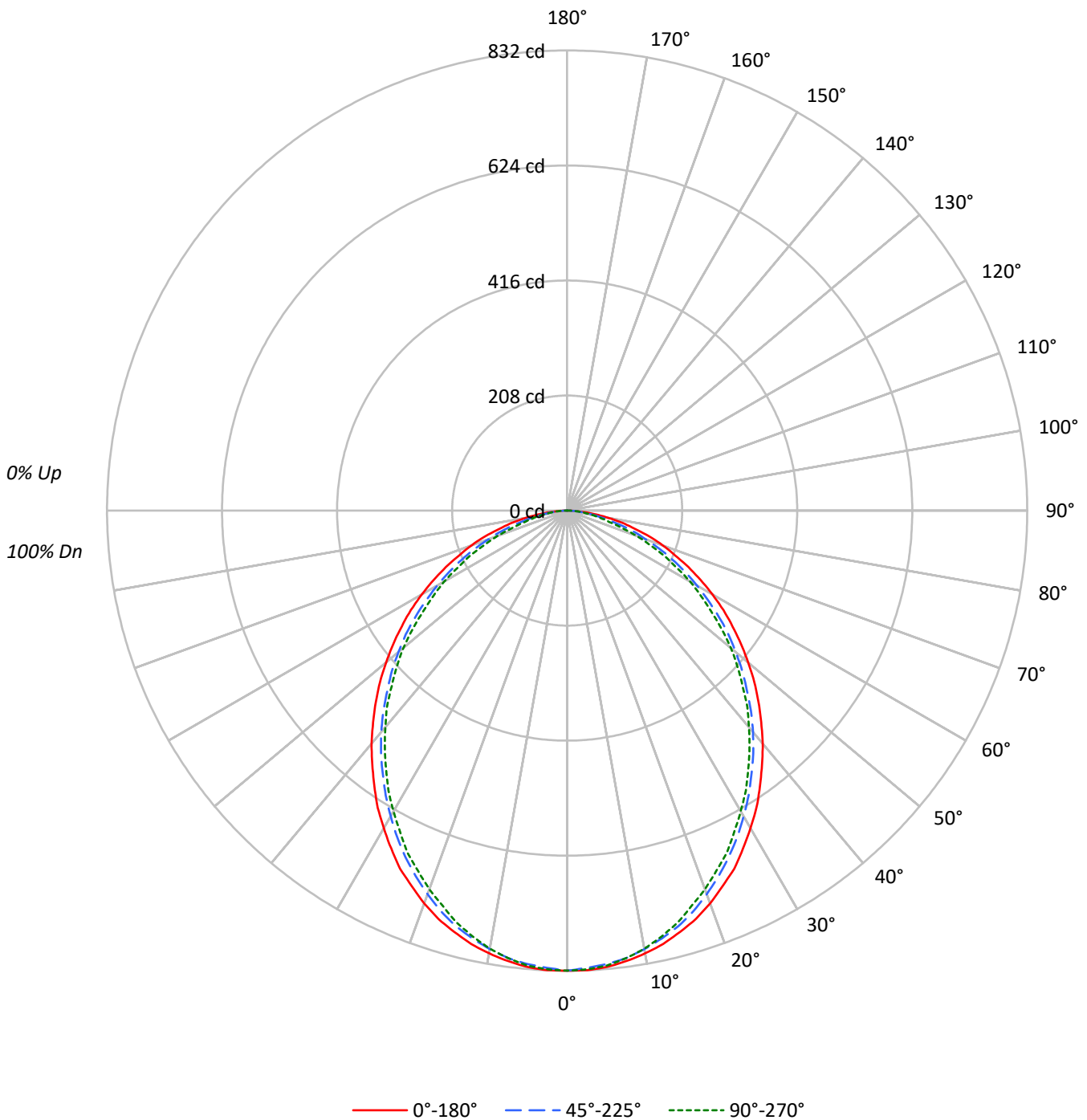
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2803	2803	2803
5°	2802	2784	2793
10°	2781	2755	2752
15°	2751	2713	2691
20°	2711	2646	2612
25°	2657	2571	2539
30°	2580	2483	2442
35°	2501	2391	2348
40°	2420	2299	2250
45°	2331	2191	2138
50°	2239	2085	2027
55°	2145	1968	1866
60°	2043	1828	1729
65°	1929	1675	1552
70°	1816	1485	1315
75°	1637	1267	1021
80°	1453	1003	902
85°	1199	800	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	3.9
10°-20°	219.4	11.0
20°-30°	319.8	16.1
30°-40°	366.6	18.4
40°-50°	358.4	18.0
50°-60°	302.3	15.2
60°-70°	211.3	10.6
70°-80°	107.8	5.4
80°-90°	27.2	1.4
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°	617.4	31.0
0°-40°	984.0	49.4
0°-60°	1644.7	82.6
0°-90°	1991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	828	827	823	826	826	79
15°	789	786	778	775	772	222
25°	715	706	691	685	683	328
35°	608	599	581	575	571	380
45°	489	476	460	454	449	377
55°	365	351	335	326	318	327
65°	242	227	210	198	195	240
75°	126	115	97	85	78	135
85°	31	23	21	22	22	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	831.8	831.8	831.8	831.8	831.8
2.5°	831.8	830.1	827.5	830.9	830.1
5°	828.4	826.6	823.2	825.8	825.8
7.5°	821.5	819.7	816.3	818.0	816.3
10°	812.9	811.1	805.1	806.0	804.2
12.5°	802.5	799.1	792.2	791.3	788.7
15°	788.7	786.2	777.6	775.0	771.5
17.5°	774.1	768.9	759.5	754.3	749.1
20°	756.0	749.1	737.9	731.9	728.5
22.5°	734.5	729.3	715.6	708.7	705.2
25°	714.7	706.1	691.4	684.6	682.8
27.5°	688.9	682.0	665.6	659.6	654.4
30°	663.0	655.3	638.1	632.0	627.7
32.5°	637.2	628.6	610.5	603.6	601.0
35°	607.9	599.3	581.2	575.2	570.9
37.5°	578.6	568.3	552.8	545.9	541.6
40°	550.2	538.2	522.7	514.9	511.5
42.5°	519.2	506.3	491.7	483.9	482.2
45°	489.1	476.2	459.8	453.8	448.6
47.5°	459.0	444.3	429.7	421.1	417.6
50°	427.1	413.3	397.8	389.2	386.6
52.5°	396.1	382.3	367.7	358.2	352.2
55°	365.1	351.3	335.0	325.5	317.7
57.5°	335.0	318.6	302.2	291.0	286.7
60°	303.1	288.5	271.2	260.0	256.6
62.5°	272.1	259.2	241.1	228.2	222.2
65°	242.0	227.3	210.1	198.0	194.6
67.5°	211.0	198.0	180.8	167.0	161.0
70°	184.3	167.9	150.7	138.6	133.5
72.5°	155.9	141.2	124.9	111.1	103.3
75°	125.7	115.4	97.3	85.2	78.4
77.5°	101.6	89.6	73.2	63.7	62.0
80°	74.9	65.4	51.7	47.4	46.5
82.5°	52.5	43.1	35.3	33.6	32.7
85°	31.0	23.2	20.7	21.5	21.5
87.5°	12.9	9.5	9.5	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)