

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: P229472

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36058)
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-U
Description: METALUX 1X4 RLN LED TROFFER
Light Source: (112)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2043.0 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

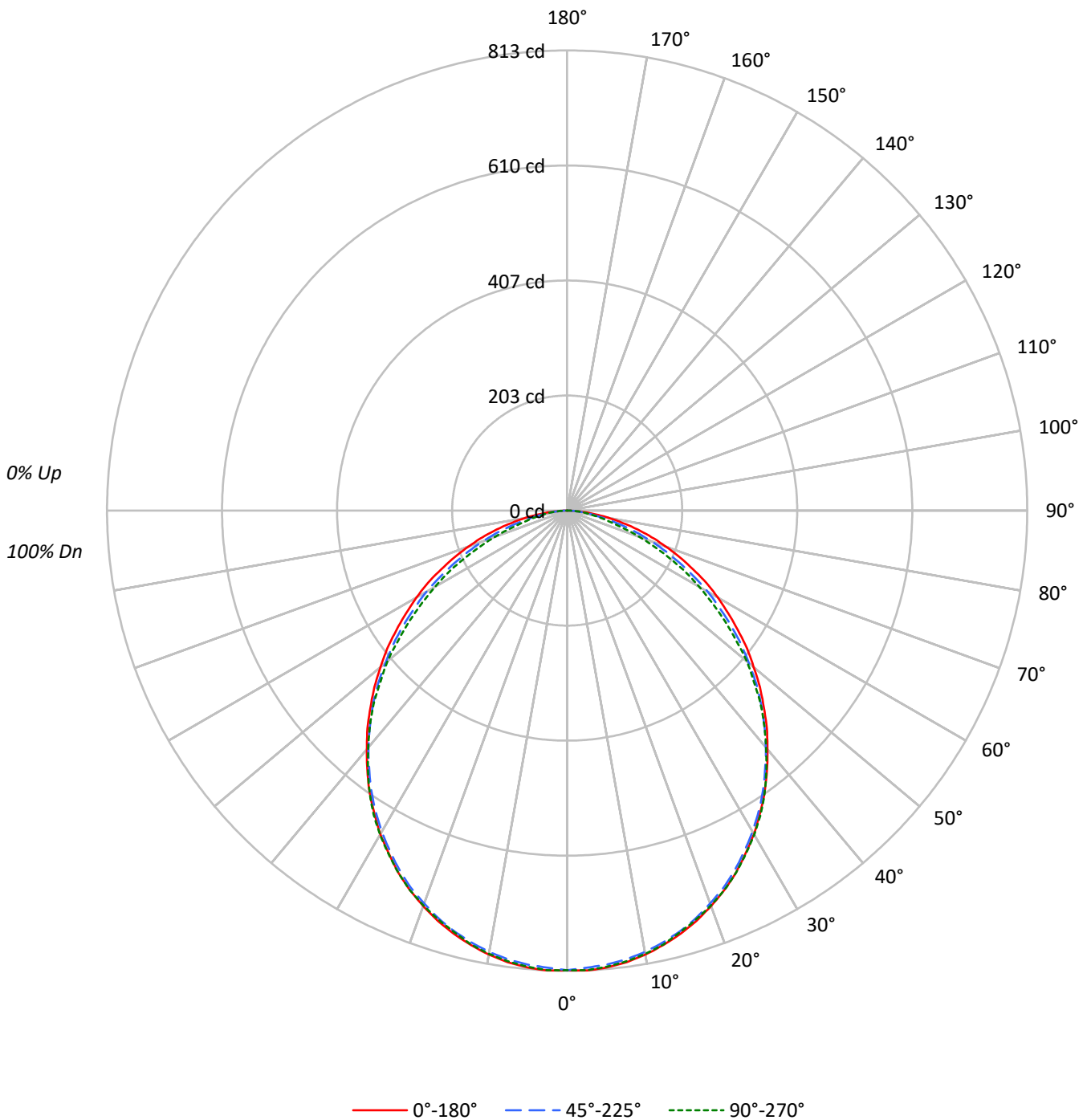
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	77		84	79	76		81	77	74	72
3	91	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34		45	39	34		44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2737	2737	2737
5°	2740	2724	2735
10°	2726	2709	2721
15°	2700	2685	2690
20°	2666	2648	2662
25°	2624	2606	2624
30°	2568	2549	2572
35°	2503	2482	2503
40°	2422	2403	2405
45°	2342	2311	2304
50°	2255	2198	2174
55°	2162	2073	1997
60°	2070	1935	1817
65°	1957	1749	1601
70°	1825	1553	1345
75°	1673	1301	1039
80°	1442	974	896
85°	1164	816	835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	3.8
10°-20°	217.7	10.7
20°-30°	324.1	15.9
30°-40°	378.8	18.5
40°-50°	374.3	18.3
50°-60°	316.1	15.5
60°-70°	218.9	10.7
70°-80°	109.3	5.3
80°-90°	27.1	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°	618.5	30.3
0°-40°	997.2	48.8
0°-60°	1687.6	82.6
0°-90°	2043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	810	809	805	809	809	77
15°	774	773	770	773	771	218
25°	706	704	701	705	706	325
35°	608	605	603	608	608	380
45°	492	486	485	484	483	379
55°	368	361	353	345	340	330
65°	246	234	219	208	201	243
75°	128	117	100	86	80	136
85°	30	23	21	21	22	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.2	812.2	812.2	812.2	812.2
2.5°	813.3	811.7	808.2	812.2	812.7
5°	810.2	808.7	805.2	809.2	808.7
7.5°	804.7	802.7	799.7	803.2	803.2
10°	796.7	795.2	791.7	795.7	795.2
12.5°	786.1	785.1	781.6	785.6	785.1
15°	774.1	773.1	769.6	773.1	771.1
17.5°	760.0	759.5	755.5	758.0	757.5
20°	743.5	742.5	738.5	743.5	742.5
22.5°	725.9	723.9	721.4	725.4	725.9
25°	705.8	703.8	700.8	705.3	705.8
27.5°	682.7	681.2	678.2	684.7	683.7
30°	660.1	658.6	655.1	660.6	661.1
32.5°	634.0	632.5	630.0	635.5	636.5
35°	608.4	605.4	603.4	607.9	608.4
37.5°	579.8	576.8	574.8	579.3	578.3
40°	550.7	547.2	546.2	549.7	546.7
42.5°	522.1	517.6	515.6	517.6	515.6
45°	491.5	485.9	484.9	483.9	483.4
47.5°	461.8	455.8	453.3	449.8	447.3
50°	430.2	423.7	419.2	415.7	414.7
52.5°	400.6	393.1	386.5	383.5	375.5
55°	368.0	361.4	352.9	345.4	339.9
57.5°	337.3	328.8	318.8	310.7	303.7
60°	307.2	296.2	287.1	274.6	269.6
62.5°	277.6	265.1	252.5	239.0	236.4
65°	245.5	233.9	219.4	207.8	200.8
67.5°	214.9	202.8	188.8	172.7	166.2
70°	185.2	172.2	157.6	142.1	136.5
72.5°	156.6	143.6	128.5	111.9	105.4
75°	128.5	117.0	99.9	86.3	79.8
77.5°	99.9	90.4	73.8	62.8	61.7
80°	74.3	65.8	50.2	47.7	46.2
82.5°	51.2	43.2	35.6	34.1	33.1
85°	30.1	23.1	21.1	21.1	21.6
87.5°	11.5	10.0	10.0	10.0	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)