

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: P229562

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-2)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-23-RDP-UNV-L935-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (112)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1689.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.31 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

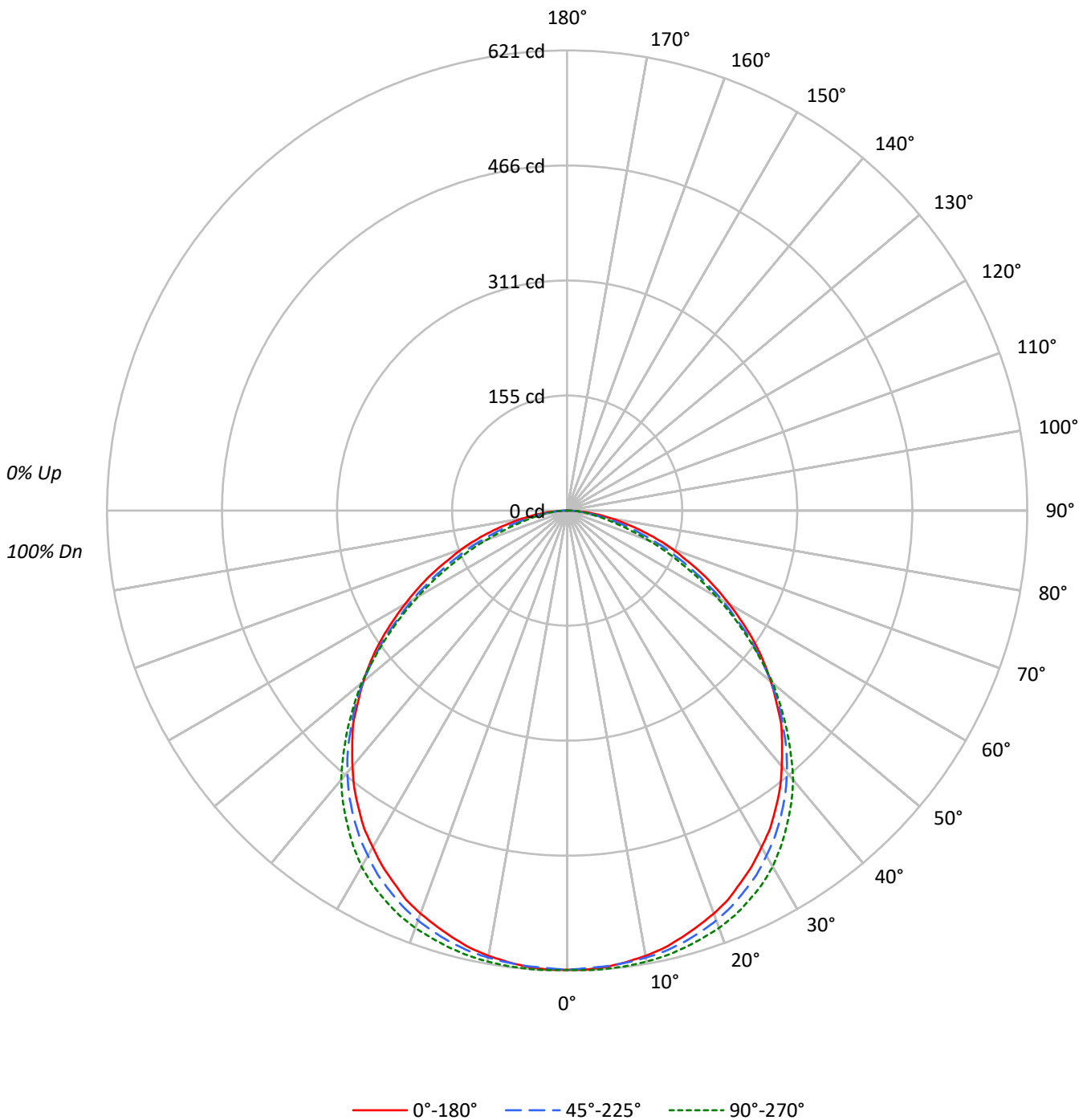
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	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	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2088	2088	2088
5°	2090	2087	2099
10°	2087	2096	2115
15°	2081	2106	2131
20°	2075	2111	2149
25°	2059	2105	2159
30°	2041	2093	2159
35°	2018	2070	2128
40°	1982	2029	2088
45°	1948	1965	1999
50°	1881	1881	1900
55°	1810	1768	1742
60°	1704	1626	1566
65°	1598	1462	1363
70°	1483	1290	1141
75°	1333	1090	905
80°	1158	846	761
85°	997	723	723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	3.5
10°-20°	170.6	10.1
20°-30°	261.5	15.5
30°-40°	315.0	18.6
40°-50°	318.2	18.8
50°-60°	268.6	15.9
60°-70°	182.6	10.8
70°-80°	90.5	5.4
80°-90°	23.1	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°	491.0	29.1
0°-40°	806.0	47.7
0°-60°	1392.8	82.5
0°-90°	1689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	618	618	617	620	621	59
15°	597	599	604	609	611	168
25°	554	558	566	578	581	255
35°	491	494	503	515	517	307
45°	409	406	412	419	419	314
55°	308	302	301	298	296	274
65°	200	191	183	174	171	198
75°	102	94	84	73	70	109
85°	26	20	19	19	19	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	619.8	619.8	619.8	619.8	619.8
2.5°	619.8	619.8	618.0	620.7	620.7
5°	618.0	618.0	617.1	619.8	620.7
7.5°	614.4	615.3	615.3	618.9	619.8
10°	610.0	610.9	612.7	617.1	618.0
12.5°	604.6	606.4	609.1	613.5	615.3
15°	596.6	599.3	603.7	609.1	610.9
17.5°	587.7	591.3	596.6	603.7	605.5
20°	578.8	581.5	588.6	596.6	599.3
22.5°	568.1	571.7	578.8	587.7	591.3
25°	553.9	558.3	566.3	577.9	580.6
27.5°	540.5	545.0	553.9	565.5	569.0
30°	524.5	529.8	537.9	550.3	554.8
32.5°	509.4	512.0	521.8	533.4	537.0
35°	490.7	494.2	503.1	514.7	517.4
37.5°	472.0	474.6	483.5	494.2	496.9
40°	450.6	453.3	461.3	472.0	474.6
42.5°	429.2	431.0	438.1	447.0	447.0
45°	408.7	406.1	412.3	419.4	419.4
47.5°	382.9	382.9	387.4	390.9	390.9
50°	358.9	357.1	358.9	360.6	362.4
52.5°	333.9	330.4	329.5	329.5	328.6
55°	308.1	301.9	301.0	298.3	296.5
57.5°	279.6	275.2	269.8	266.3	264.5
60°	252.9	244.9	241.3	235.1	232.4
62.5°	226.2	219.1	211.0	204.8	202.1
65°	200.4	190.6	183.4	174.5	171.0
67.5°	173.6	164.7	155.8	147.8	144.3
70°	150.5	139.8	130.9	119.3	115.8
72.5°	126.4	116.7	106.0	95.3	90.8
75°	102.4	94.4	83.7	73.0	69.5
77.5°	80.1	73.0	62.3	53.4	52.5
80°	59.7	53.4	43.6	40.1	39.2
82.5°	42.7	35.6	29.4	28.5	28.5
85°	25.8	19.6	18.7	18.7	18.7
87.5°	9.8	8.9	9.8	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)