

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: P229478

Luminaire Tested: **14RLN-LD5-26-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229478
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-LD5-26-UNV-L940-CD1-U
Description: METALUX 1X4 RLN LED TROFFER
Light Source: (112)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2338.0 lumens
Efficiency: N/A
Efficacy: 94.6 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

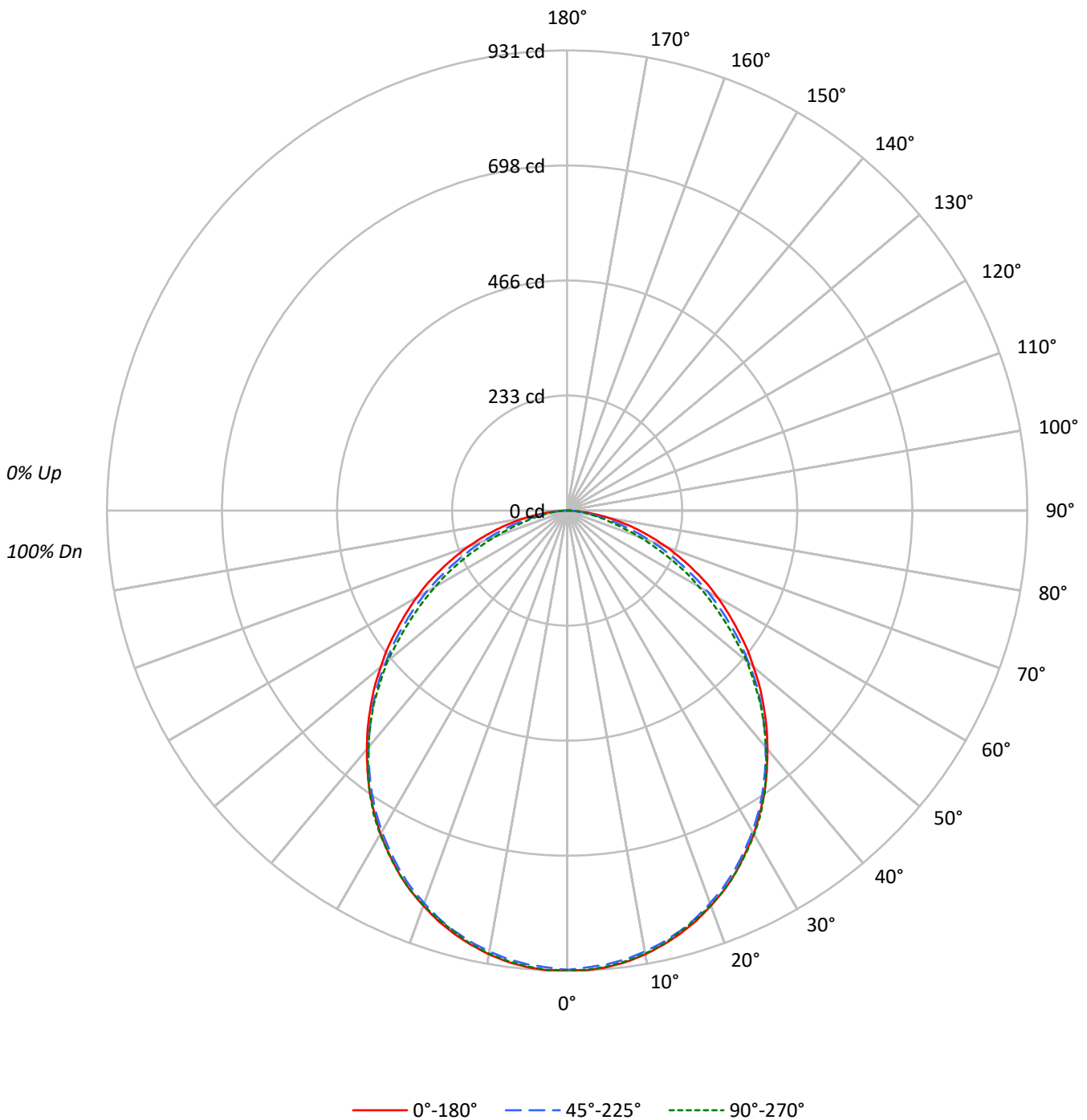
Input Watts (W): 24.72
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3132	3132	3132
5°	3136	3117	3130
10°	3119	3100	3114
15°	3090	3072	3078
20°	3051	3030	3047
25°	3003	2982	3003
30°	2940	2917	2944
35°	2864	2840	2864
40°	2772	2749	2752
45°	2680	2645	2636
50°	2581	2515	2487
55°	2474	2373	2285
60°	2369	2214	2079
65°	2240	2002	1832
70°	2089	1777	1540
75°	1915	1488	1189
80°	1649	1114	1027
85°	1334	932	955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.8
10°-20°	249.1	10.7
20°-30°	370.8	15.9
30°-40°	433.5	18.5
40°-50°	428.4	18.3
50°-60°	361.7	15.5
60°-70°	250.6	10.7
70°-80°	125.0	5.3
80°-90°	31.1	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°	707.8	30.3
0°-40°	1141.2	48.8
0°-60°	1931.3	82.6
0°-90°	2338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	927	926	922	926	926	88
15°	886	885	881	885	882	250
25°	808	805	802	807	808	372
35°	696	693	690	696	696	435
45°	562	556	555	554	553	434
55°	421	414	404	395	389	377
65°	281	268	251	238	230	279
75°	147	134	114	99	91	155
85°	34	26	24	24	25	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.5	929.5	929.5	929.5	929.5
2.5°	930.7	929.0	924.9	929.5	930.1
5°	927.2	925.5	921.5	926.1	925.5
7.5°	920.9	918.6	915.2	919.2	919.2
10°	911.7	910.0	906.0	910.6	910.0
12.5°	899.7	898.5	894.5	899.1	898.5
15°	885.9	884.7	880.7	884.7	882.4
17.5°	869.8	869.2	864.6	867.5	866.9
20°	850.8	849.7	845.1	850.8	849.7
22.5°	830.7	828.4	825.5	830.1	830.7
25°	807.7	805.4	802.0	807.2	807.7
27.5°	781.3	779.6	776.1	783.6	782.5
30°	755.5	753.7	749.7	756.0	756.6
32.5°	725.6	723.9	721.0	727.3	728.5
35°	696.3	692.8	690.5	695.7	696.3
37.5°	663.5	660.1	657.8	663.0	661.8
40°	630.2	626.2	625.0	629.1	625.6
42.5°	597.5	592.3	590.0	592.3	590.0
45°	562.4	556.1	555.0	553.8	553.2
47.5°	528.5	521.6	518.8	514.7	511.9
50°	492.3	484.9	479.7	475.7	474.5
52.5°	458.4	449.8	442.4	438.9	429.7
55°	421.1	413.6	403.9	395.3	388.9
57.5°	386.1	376.3	364.8	355.6	347.6
60°	351.6	339.0	328.6	314.2	308.5
62.5°	317.7	303.3	289.0	273.5	270.6
65°	280.9	267.7	251.1	237.8	229.8
67.5°	245.9	232.1	216.0	197.6	190.2
70°	212.0	197.1	180.4	162.6	156.3
72.5°	179.2	164.3	147.1	128.1	120.6
75°	147.1	133.9	114.3	98.8	91.3
77.5°	114.3	103.4	84.5	71.8	70.7
80°	85.0	75.3	57.4	54.6	52.9
82.5°	58.6	49.4	40.8	39.1	37.9
85°	34.5	26.4	24.1	24.1	24.7
87.5°	13.2	11.5	11.5	11.5	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)