

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: P229453

Luminaire Tested: **14RLN-LD5-26-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229453
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-L830-CD1-U
Description: METALUX 1X4 RLN LED TROFFER
Light Source: (112)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2541.0 lumens
Efficiency: N/A
Efficacy: 102.8 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

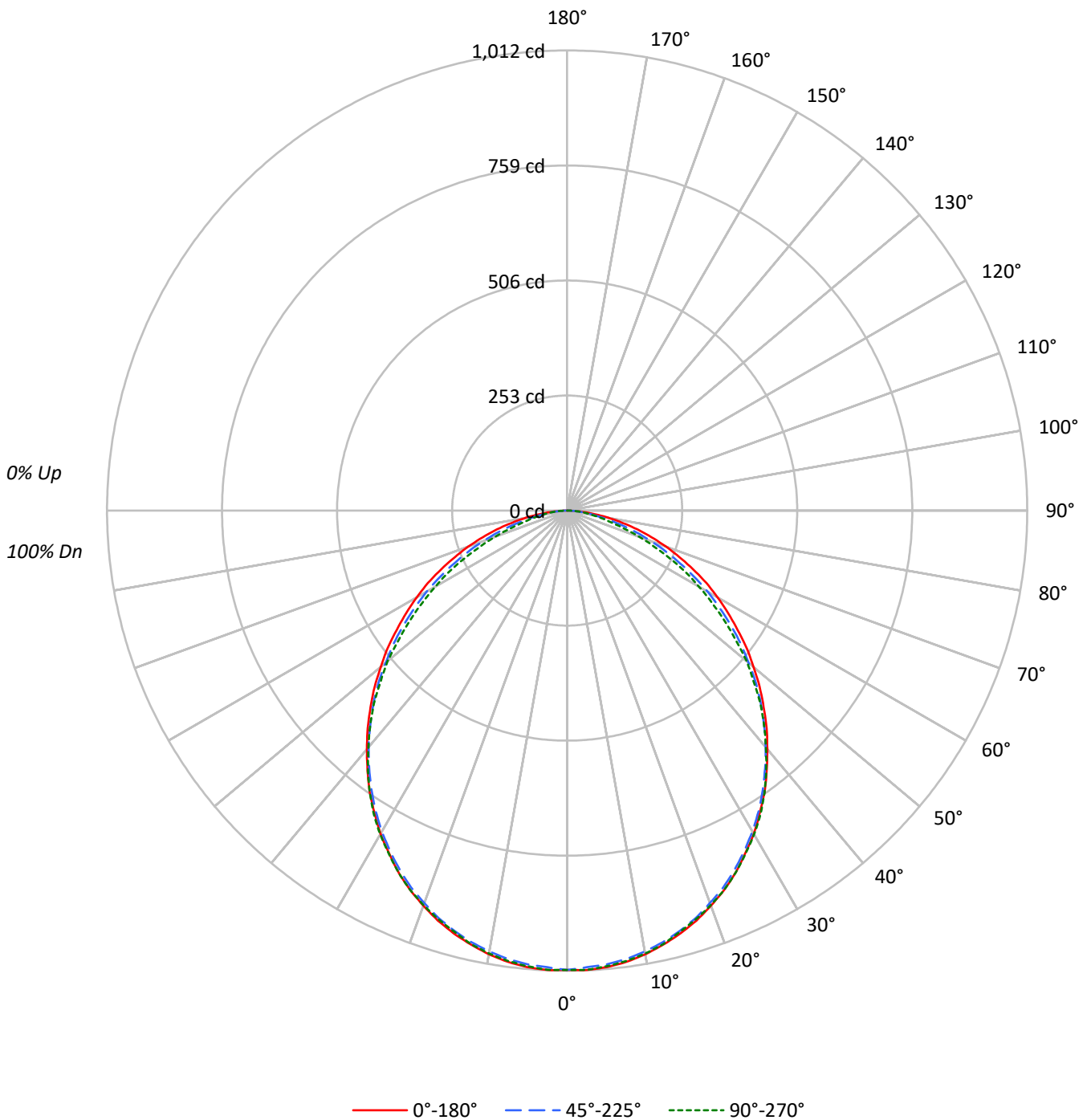
Input Watts (W): 24.72
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72					72			
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61					61			
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53					53			
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3404	3404	3404
5°	3409	3388	3402
10°	3390	3369	3384
15°	3359	3339	3345
20°	3316	3294	3312
25°	3264	3241	3264
30°	3195	3170	3199
35°	3113	3087	3113
40°	3013	2988	2991
45°	2913	2874	2865
50°	2805	2733	2703
55°	2689	2578	2483
60°	2575	2407	2260
65°	2434	2176	1991
70°	2270	1932	1673
75°	2080	1618	1293
80°	1793	1211	1114
85°	1450	1013	1036



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.8
10°-20°	270.8	10.7
20°-30°	403.0	15.9
30°-40°	471.1	18.5
40°-50°	465.6	18.3
50°-60°	393.1	15.5
60°-70°	272.3	10.7
70°-80°	135.9	5.3
80°-90°	33.8	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°	769.2	30.3
0°-40°	1240.3	48.8
0°-60°	2099.0	82.6
0°-90°	2541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1008	1006	1002	1006	1006	96
15°	963	962	957	962	959	271
25°	878	875	872	877	878	404
35°	757	753	750	756	757	473
45°	611	604	603	602	601	472
55°	458	450	439	430	423	410
65°	305	291	273	258	250	303
75°	160	146	124	107	99	169
85°	38	29	26	26	27	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1010.2	1010.2	1010.2	1010.2	1010.2
2.5°	1011.5	1009.6	1005.2	1010.2	1010.9
5°	1007.7	1005.9	1001.5	1006.5	1005.9
7.5°	1000.9	998.4	994.6	999.0	999.0
10°	990.9	989.0	984.6	989.6	989.0
12.5°	977.8	976.5	972.2	977.1	976.5
15°	962.8	961.5	957.2	961.5	959.0
17.5°	945.3	944.7	939.7	942.8	942.2
20°	924.7	923.5	918.5	924.7	923.5
22.5°	902.8	900.3	897.2	902.2	902.8
25°	877.9	875.4	871.6	877.2	877.9
27.5°	849.1	847.3	843.5	851.6	850.4
30°	821.1	819.2	814.8	821.7	822.3
32.5°	788.6	786.7	783.6	790.5	791.7
35°	756.7	753.0	750.5	756.1	756.7
37.5°	721.2	717.4	714.9	720.5	719.3
40°	684.9	680.6	679.3	683.7	679.9
42.5°	649.3	643.7	641.2	643.7	641.2
45°	611.3	604.4	603.1	601.9	601.3
47.5°	574.4	566.9	563.8	559.4	556.3
50°	535.1	527.0	521.4	517.0	515.7
52.5°	498.3	488.9	480.8	477.0	467.0
55°	457.7	449.5	438.9	429.6	422.7
57.5°	419.6	409.0	396.5	386.5	377.7
60°	382.1	368.4	357.1	341.5	335.3
62.5°	345.3	329.7	314.1	297.2	294.1
65°	305.3	291.0	272.9	258.5	249.7
67.5°	267.2	252.2	234.8	214.8	206.7
70°	230.4	214.2	196.1	176.7	169.8
72.5°	194.8	178.6	159.8	139.2	131.1
75°	159.8	145.5	124.3	107.4	99.3
77.5°	124.3	112.4	91.8	78.0	76.8
80°	92.4	81.8	62.4	59.3	57.4
82.5°	63.7	53.7	44.3	42.5	41.2
85°	37.5	28.7	26.2	26.2	26.8
87.5°	14.4	12.5	12.5	12.5	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)