

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: P229483

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-26-RDP-UNV-L830-CD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH RDP LENS
Light Source: (112)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2156.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

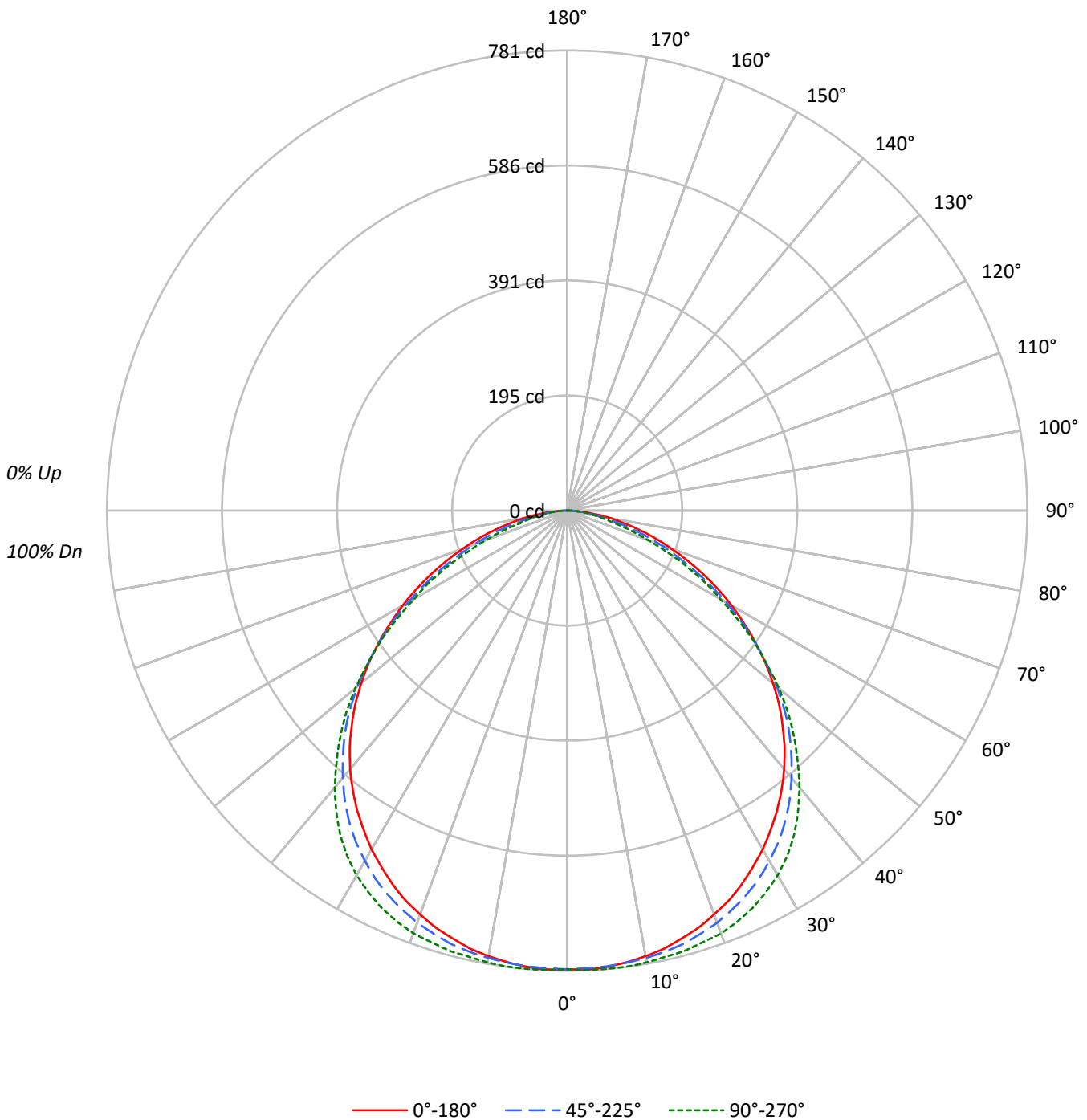
Input Watts (W): 24.72
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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	30	56	44	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2624	2624	2624
5°	2630	2626	2641
10°	2627	2638	2664
15°	2623	2656	2698
20°	2615	2669	2738
25°	2604	2676	2767
30°	2584	2671	2780
35°	2555	2652	2762
40°	2520	2605	2699
45°	2465	2542	2598
50°	2391	2437	2459
55°	2290	2284	2271
60°	2173	2101	2021
65°	2024	1878	1776
70°	1846	1646	1435
75°	1659	1367	1074
80°	1475	997	935
85°	1160	827	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.4
10°-20°	215.4	10.0
20°-30°	332.4	15.4
30°-40°	403.2	18.7
40°-50°	409.4	19.0
50°-60°	346.3	16.1
60°-70°	234.3	10.9
70°-80°	113.3	5.3
80°-90°	27.6	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°	622.0	28.8
0°-40°	1025.1	47.5
0°-60°	1780.8	82.6
0°-90°	2156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	778	778	776	780	781	74
15°	752	756	762	770	773	212
25°	700	706	720	738	744	323
35°	621	628	645	665	672	388
45°	517	518	533	544	545	399
55°	390	387	389	389	387	348
65°	254	243	236	226	223	252
75°	127	118	105	91	82	136
85°	30	24	21	21	21	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	778.6	778.6	778.6	778.6	778.6
2.5°	779.7	779.7	777.5	779.7	780.8
5°	777.5	777.5	776.5	779.7	780.8
7.5°	773.3	774.3	774.3	778.6	780.8
10°	767.9	770.0	771.1	777.5	778.6
12.5°	761.5	763.6	766.8	774.3	775.4
15°	751.8	756.1	761.5	770.0	773.3
17.5°	742.2	746.5	752.9	764.7	767.9
20°	729.3	734.7	744.3	758.3	763.6
22.5°	716.5	720.8	732.6	749.7	755.0
25°	700.4	705.8	719.7	737.9	744.3
27.5°	682.2	689.7	704.7	724.0	730.4
30°	664.0	670.4	686.5	707.9	714.4
32.5°	642.6	649.0	667.2	687.6	695.1
35°	621.2	627.6	644.7	665.1	671.5
37.5°	597.6	601.9	620.1	637.2	643.7
40°	573.0	576.2	592.3	609.4	613.7
42.5°	546.2	548.3	563.3	578.3	579.4
45°	517.3	518.4	533.4	544.1	545.1
47.5°	488.4	487.3	500.2	507.6	508.7
50°	456.2	456.2	464.8	469.1	469.1
52.5°	424.1	422.0	426.3	429.5	426.3
55°	389.8	386.6	388.8	388.8	386.6
57.5°	355.6	349.1	350.2	348.1	342.7
60°	322.4	314.9	311.7	304.2	299.9
62.5°	288.1	279.5	273.1	264.5	263.5
65°	253.8	243.1	235.6	226.0	222.8
67.5°	220.6	211.0	200.3	189.6	183.1
70°	187.4	176.7	167.1	153.2	145.7
72.5°	157.4	147.8	136.0	120.0	114.6
75°	127.4	117.8	105.0	91.0	82.5
77.5°	98.5	91.0	77.1	65.3	64.3
80°	76.0	67.5	51.4	48.2	48.2
82.5°	49.3	43.9	36.4	34.3	34.3
85°	30.0	23.6	21.4	21.4	21.4
87.5°	11.8	10.7	10.7	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)