

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: P229543

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229543
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-LD5-26-RDP-UNV-L830-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (112)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2100.0 lumens
Efficiency: N/A
Efficacy: 85.0 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

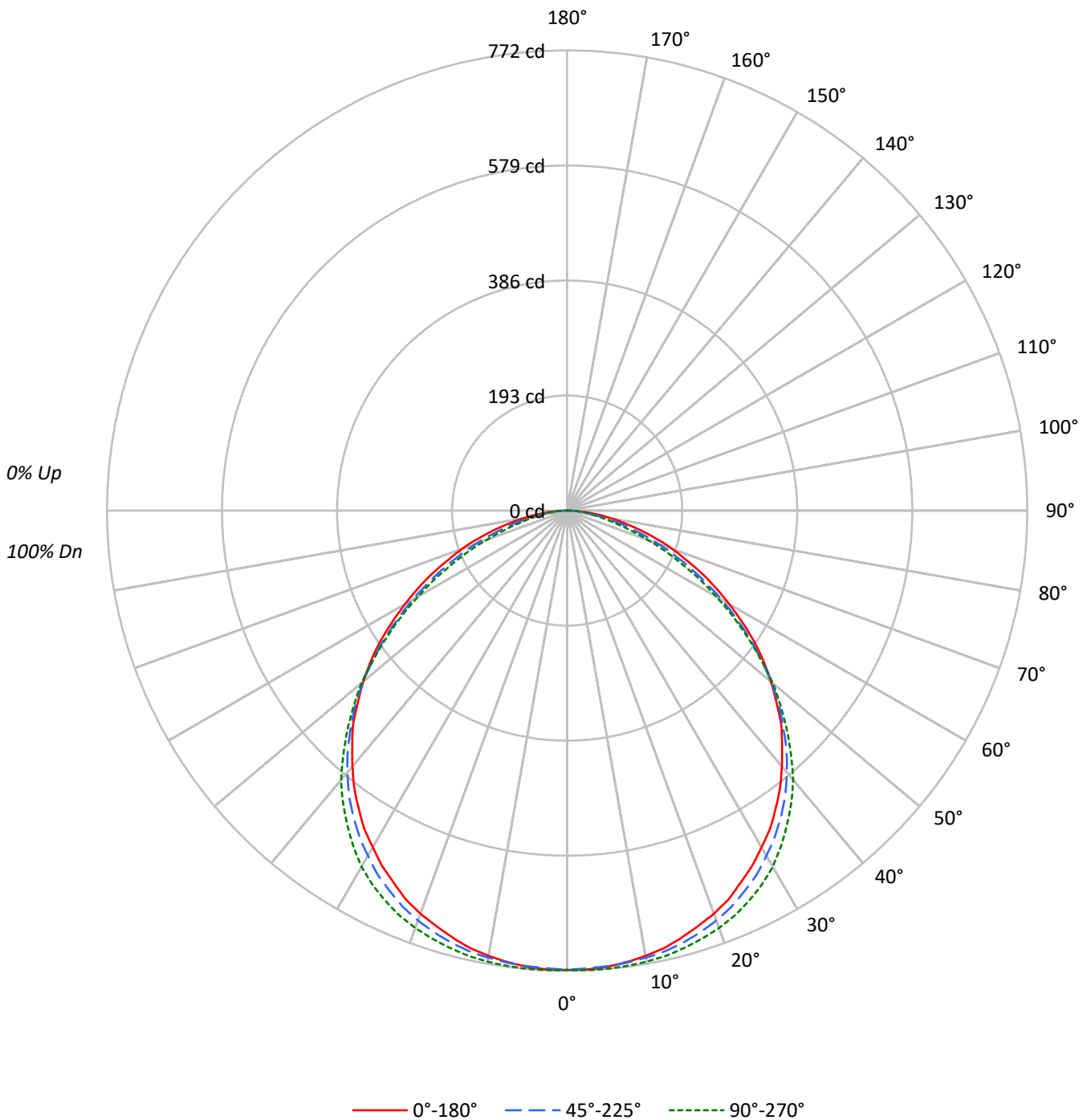
Input Watts (W): 24.72
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2597	2597	2597
5°	2599	2595	2610
10°	2595	2606	2629
15°	2588	2619	2649
20°	2581	2624	2672
25°	2561	2618	2684
30°	2537	2602	2684
35°	2510	2573	2646
40°	2464	2523	2596
45°	2422	2443	2485
50°	2339	2339	2362
55°	2251	2198	2166
60°	2119	2022	1948
65°	1986	1819	1695
70°	1843	1604	1418
75°	1657	1355	1125
80°	1440	1054	945
85°	1241	901	901



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.5
10°-20°	212.1	10.1
20°-30°	325.2	15.5
30°-40°	391.6	18.6
40°-50°	395.7	18.8
50°-60°	333.9	15.9
60°-70°	227.0	10.8
70°-80°	112.5	5.4
80°-90°	28.8	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°	610.5	29.1
0°-40°	1002.1	47.7
0°-60°	1731.8	82.5
0°-90°	2100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	768	768	767	771	772	73
15°	742	745	751	757	760	209
25°	689	694	704	719	722	318
35°	610	614	626	640	643	381
45°	508	505	513	522	522	390
55°	383	375	374	371	369	341
65°	249	237	228	217	213	247
75°	127	117	104	91	86	136
85°	32	24	23	23	23	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	770.6	770.6	770.6	770.6	770.6
2.5°	770.6	770.6	768.4	771.7	771.7
5°	768.4	768.4	767.3	770.6	771.7
7.5°	764.0	765.1	765.1	769.5	770.6
10°	758.4	759.5	761.7	767.3	768.4
12.5°	751.8	754.0	757.3	762.8	765.1
15°	741.8	745.1	750.7	757.3	759.5
17.5°	730.7	735.2	741.8	750.7	752.9
20°	719.7	723.0	731.8	741.8	745.1
22.5°	706.4	710.8	719.7	730.7	735.2
25°	688.7	694.2	704.2	718.6	721.9
27.5°	672.1	677.6	688.7	703.1	707.5
30°	652.1	658.8	668.7	684.2	689.8
32.5°	633.3	636.6	648.8	663.2	667.6
35°	610.1	614.5	625.6	639.9	643.3
37.5°	586.8	590.1	601.2	614.5	617.8
40°	560.2	563.6	573.5	586.8	590.1
42.5°	533.7	535.9	544.7	555.8	555.8
45°	508.2	504.9	512.6	521.5	521.5
47.5°	476.1	476.1	481.6	486.1	486.1
50°	446.2	444.0	446.2	448.4	450.6
52.5°	415.2	410.8	409.7	409.7	408.5
55°	383.1	375.3	374.2	370.9	368.7
57.5°	347.7	342.1	335.5	331.0	328.8
60°	314.4	304.5	300.0	292.3	289.0
62.5°	281.2	272.4	262.4	254.7	251.3
65°	249.1	236.9	228.1	217.0	212.6
67.5°	215.9	204.8	193.8	183.8	179.4
70°	187.1	173.8	162.8	148.4	143.9
72.5°	157.2	145.0	131.8	118.5	112.9
75°	127.3	117.4	104.1	90.8	86.4
77.5°	99.6	90.8	77.5	66.4	65.3
80°	74.2	66.4	54.3	49.8	48.7
82.5°	53.1	44.3	36.5	35.4	35.4
85°	32.1	24.4	23.3	23.3	23.3
87.5°	12.2	11.1	12.2	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)