

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: P229546

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229546
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-LD5-40-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: 3229.0 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

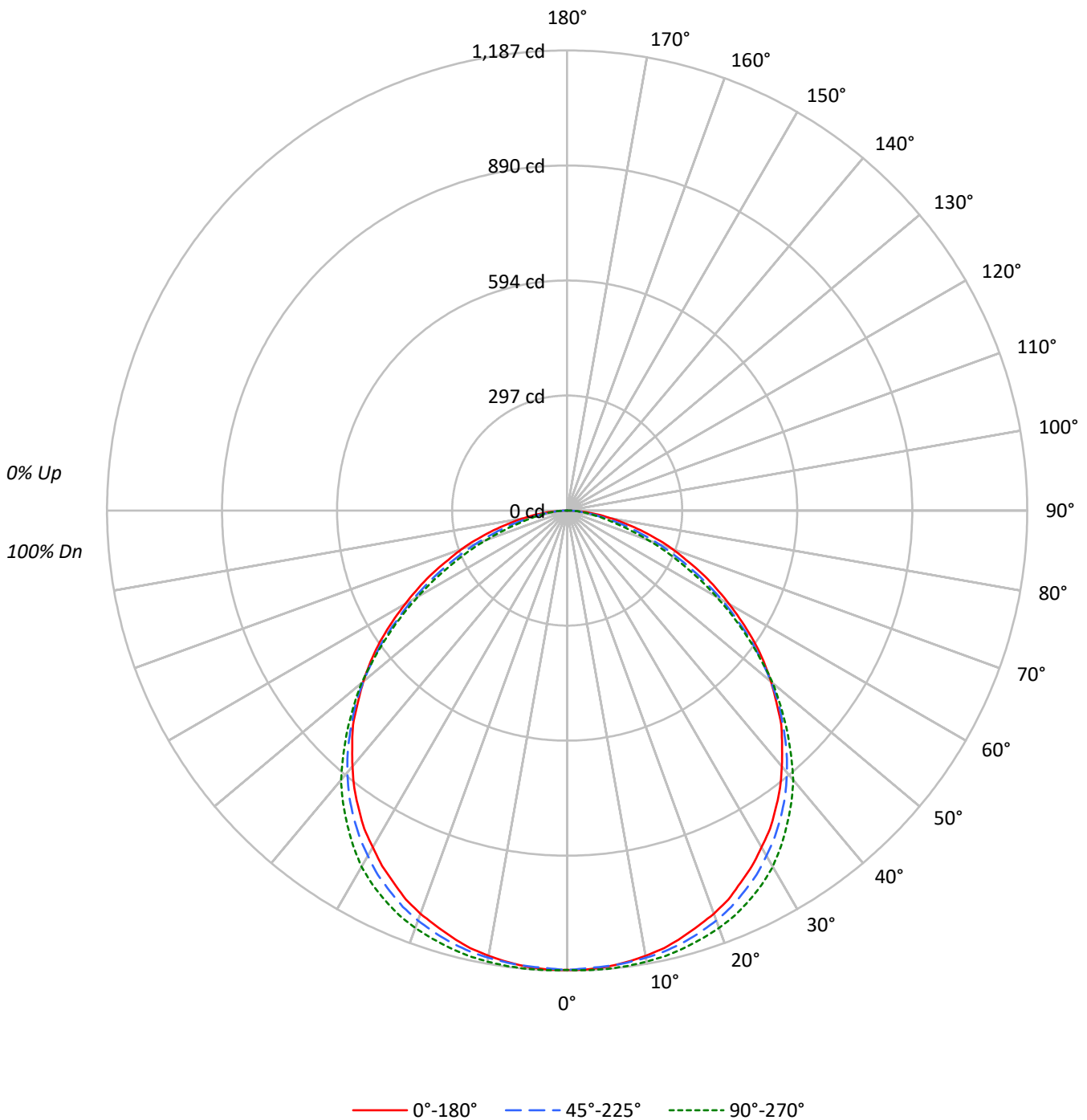
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3993	3993	3993
5°	3996	3991	4014
10°	3990	4008	4043
15°	3979	4026	4074
20°	3968	4035	4108
25°	3937	4025	4127
30°	3901	4001	4127
35°	3858	3957	4069
40°	3789	3879	3991
45°	3724	3756	3821
50°	3597	3597	3632
55°	3460	3380	3330
60°	3258	3109	2994
65°	3054	2796	2606
70°	2834	2466	2180
75°	2549	2083	1729
80°	2214	1618	1453
85°	1910	1384	1384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	3.5
10°-20°	326.1	10.1
20°-30°	500.0	15.5
30°-40°	602.2	18.6
40°-50°	608.4	18.8
50°-60°	513.5	15.9
60°-70°	349.0	10.8
70°-80°	173.0	5.4
80°-90°	44.2	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°	938.7	29.1
0°-40°	1540.9	47.7
0°-60°	2662.8	82.5
0°-90°	3229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1182	1182	1180	1185	1187	112
15°	1141	1146	1154	1164	1168	322
25°	1059	1067	1083	1105	1110	488
35°	938	945	962	984	989	587
45°	781	776	788	802	802	600
55°	589	577	575	570	567	525
65°	383	364	351	334	327	379
75°	196	180	160	140	133	209
85°	49	38	36	36	36	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.9	1184.9	1184.9	1184.9	1184.9
2.5°	1184.9	1184.9	1181.5	1186.6	1186.6
5°	1181.5	1181.5	1179.8	1184.9	1186.6
7.5°	1174.7	1176.4	1176.4	1183.2	1184.9
10°	1166.2	1167.9	1171.3	1179.8	1181.5
12.5°	1155.9	1159.3	1164.5	1173.0	1176.4
15°	1140.6	1145.7	1154.2	1164.5	1167.9
17.5°	1123.6	1130.4	1140.6	1154.2	1157.6
20°	1106.6	1111.7	1125.3	1140.6	1145.7
22.5°	1086.1	1093.0	1106.6	1123.6	1130.4
25°	1058.9	1067.4	1082.7	1104.9	1110.0
27.5°	1033.4	1041.9	1058.9	1081.0	1087.8
30°	1002.7	1012.9	1028.3	1052.1	1060.6
32.5°	973.8	978.9	997.6	1019.7	1026.6
35°	938.0	944.8	961.9	984.0	989.1
37.5°	902.3	907.4	924.4	944.8	949.9
40°	861.4	866.5	881.9	902.3	907.4
42.5°	820.6	824.0	837.6	854.6	854.6
45°	781.4	776.3	788.2	801.8	801.8
47.5°	732.0	732.0	740.6	747.4	747.4
50°	686.1	682.7	686.1	689.5	692.9
52.5°	638.4	631.6	629.9	629.9	628.2
55°	589.0	577.1	575.4	570.3	566.9
57.5°	534.6	526.0	515.8	509.0	505.6
60°	483.5	468.2	461.4	449.4	444.3
62.5°	432.4	418.8	403.5	391.6	386.4
65°	383.0	364.3	350.7	333.7	326.9
67.5°	332.0	314.9	297.9	282.6	275.8
70°	287.7	267.3	250.3	228.1	221.3
72.5°	241.7	223.0	202.6	182.2	173.6
75°	195.8	180.5	160.0	139.6	132.8
77.5°	153.2	139.6	119.2	102.1	100.4
80°	114.1	102.1	83.4	76.6	74.9
82.5°	81.7	68.1	56.2	54.5	54.5
85°	49.4	37.5	35.8	35.8	35.8
87.5°	18.7	17.0	18.7	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)