

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: P229551

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L835-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229551  
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-L835-CD1-SVPD1-U  
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (112)3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3364.0 lumens  
Efficiency: N/A  
Efficacy: 80.3 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

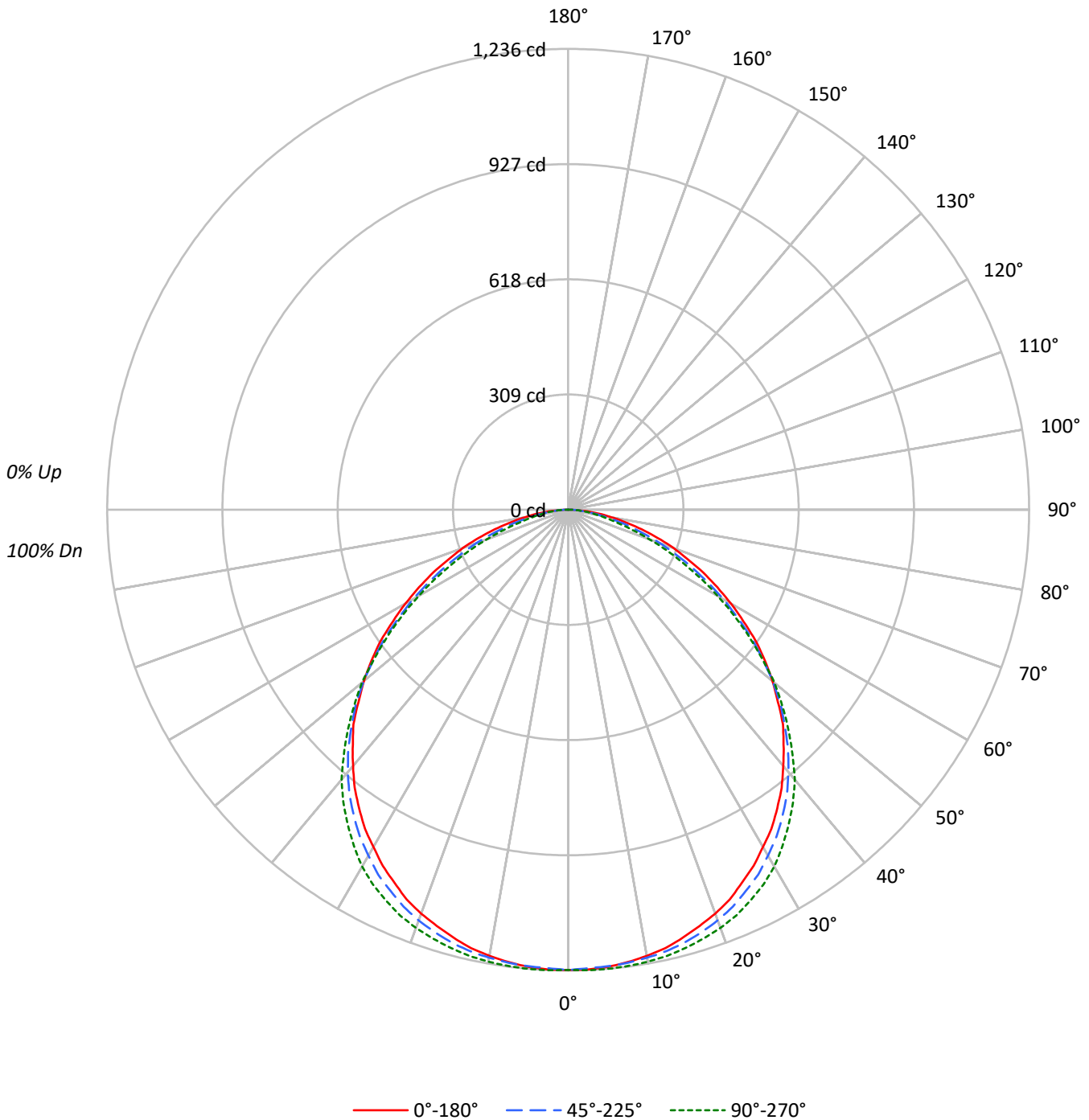
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4159	4159	4159
5°	4163	4157	4181
10°	4157	4175	4212
15°	4145	4195	4244
20°	4134	4204	4280
25°	4102	4194	4299
30°	4064	4168	4299
35°	4020	4122	4239
40°	3947	4041	4158
45°	3879	3913	3981
50°	3747	3747	3784
55°	3605	3522	3470
60°	3395	3239	3120
65°	3182	2913	2715
70°	2953	2568	2272
75°	2656	2170	1801
80°	2305	1686	1514
85°	1987	1438	1438



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.3	3.5
10°-20°	339.7	10.1
20°-30°	520.9	15.5
30°-40°	627.4	18.6
40°-50°	633.9	18.8
50°-60°	534.9	15.9
60°-70°	363.6	10.8
70°-80°	180.2	5.4
80°-90°	46.0	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°	977.9	29.1
0°-40°	1605.3	47.7
0°-60°	2774.1	82.5
0°-90°	3364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3364.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1231	1231	1229	1234	1236	117
15°	1188	1194	1202	1213	1217	335
25°	1103	1112	1128	1151	1156	509
35°	977	984	1002	1025	1030	611
45°	814	809	821	835	835	625
55°	614	601	600	594	591	547
65°	399	380	365	348	340	395
75°	204	188	167	145	138	217
85°	51	39	37	37	37	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1234.4	1234.4	1234.4	1234.4	1234.4
2.5°	1234.4	1234.4	1230.9	1236.2	1236.2
5°	1230.9	1230.9	1229.1	1234.4	1236.2
7.5°	1223.8	1225.6	1225.6	1232.6	1234.4
10°	1214.9	1216.7	1220.2	1229.1	1230.9
12.5°	1204.3	1207.8	1213.1	1222.0	1225.6
15°	1188.3	1193.6	1202.5	1213.1	1216.7
17.5°	1170.6	1177.7	1188.3	1202.5	1206.0
20°	1152.8	1158.2	1172.3	1188.3	1193.6
22.5°	1131.6	1138.6	1152.8	1170.6	1177.7
25°	1103.2	1112.0	1128.0	1151.1	1156.4
27.5°	1076.6	1085.4	1103.2	1126.2	1133.3
30°	1044.6	1055.3	1071.2	1096.1	1104.9
32.5°	1014.5	1019.8	1039.3	1062.4	1069.5
35°	977.2	984.3	1002.1	1025.1	1030.5
37.5°	940.0	945.3	963.1	984.3	989.7
40°	897.4	902.8	918.7	940.0	945.3
42.5°	854.9	858.4	872.6	890.3	890.3
45°	814.1	808.8	821.2	835.4	835.4
47.5°	762.6	762.6	771.5	778.6	778.6
50°	714.8	711.2	714.8	718.3	721.9
52.5°	665.1	658.0	656.2	656.2	654.5
55°	613.7	601.2	599.5	594.2	590.6
57.5°	556.9	548.0	537.4	530.3	526.8
60°	503.7	487.7	480.6	468.2	462.9
62.5°	450.5	436.3	420.3	407.9	402.6
65°	399.1	379.5	365.4	347.6	340.5
67.5°	345.9	328.1	310.4	294.4	287.3
70°	299.7	278.5	260.7	237.7	230.6
72.5°	251.8	232.3	211.1	189.8	180.9
75°	204.0	188.0	166.7	145.4	138.3
77.5°	159.6	145.4	124.2	106.4	104.6
80°	118.8	106.4	86.9	79.8	78.0
82.5°	85.1	70.9	58.5	56.8	56.8
85°	51.4	39.0	37.2	37.2	37.2
87.5°	19.5	17.7	19.5	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)