

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: P229710

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229710  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-5)  
Test Lab: INNOVATION CENTER-G3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-20-RDP-UNV-L940-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (126)4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1391.0 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

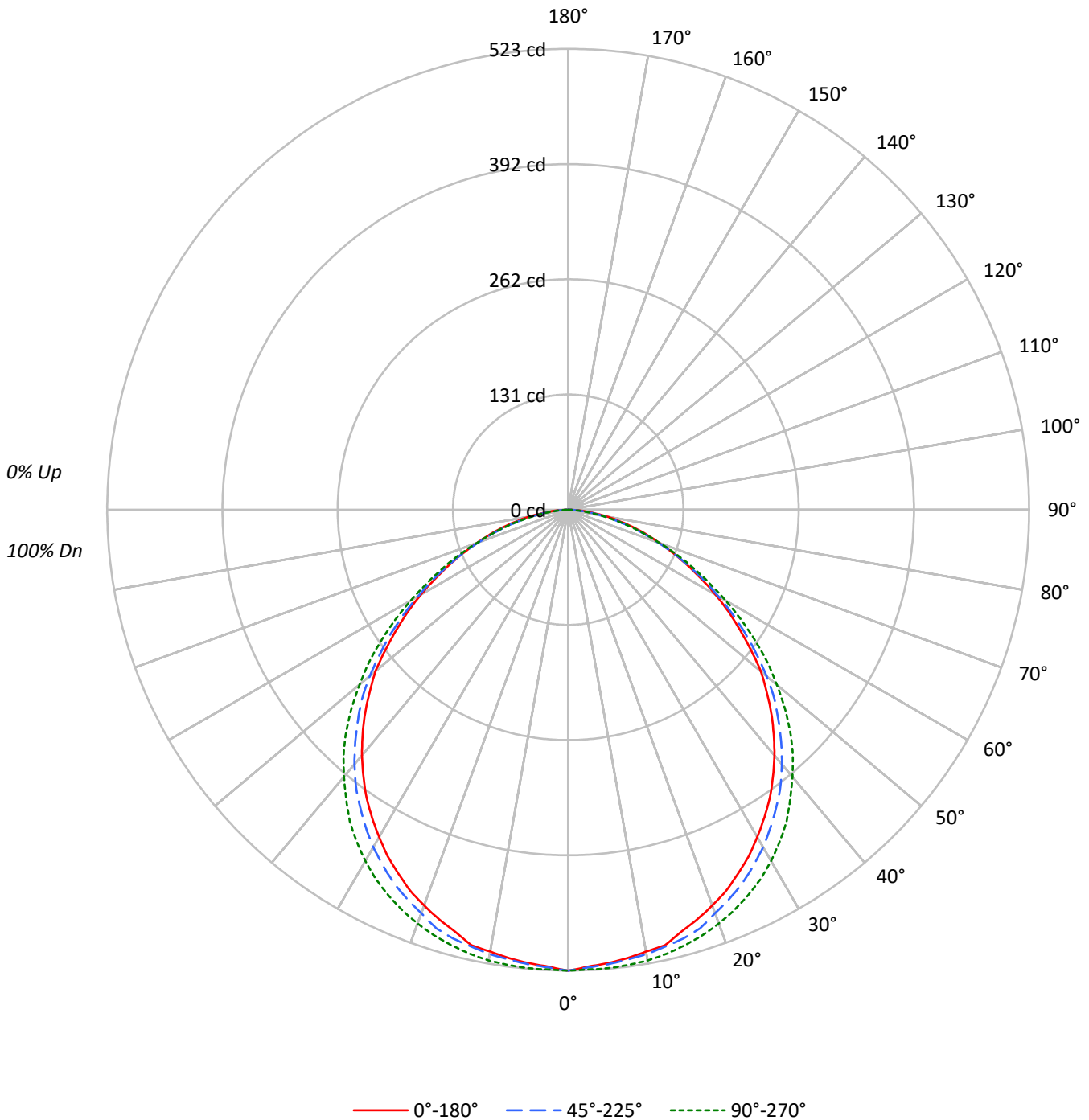
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	1676	1676	1676
5°	1661	1665	1679
10°	1656	1665	1689
15°	1644	1671	1697
20°	1629	1661	1703
25°	1611	1653	1706
30°	1586	1635	1702
35°	1560	1610	1689
40°	1522	1577	1654
45°	1476	1528	1613
50°	1422	1463	1539
55°	1328	1371	1447
60°	1236	1259	1320
65°	1131	1140	1187
70°	1024	1009	1036
75°	937	870	881
80°	834	714	690
85°	665	485	423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.3	3.5
10°-20°	142.1	10.2
20°-30°	215.9	15.5
30°-40°	258.4	18.6
40°-50°	261.0	18.8
50°-60°	220.2	15.8
60°-70°	150.3	10.8
70°-80°	76.2	5.5
80°-90°	17.6	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°	407.3	29.3
0°-40°	665.7	47.9
0°-60°	1146.9	82.5
0°-90°	1391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1391.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	517	517	518	520	522	49
15°	496	498	504	508	512	140
25°	456	460	468	478	483	210
35°	399	402	412	424	432	249
45°	326	327	337	350	356	251
55°	238	237	246	255	259	213
65°	149	147	150	153	157	148
75°	76	71	70	70	71	80
85°	18	16	13	12	12	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	523.2	523.2	523.2	523.2	523.2
2.5°	519.1	519.1	519.9	522.8	522.4
5°	516.6	516.6	517.9	520.3	522.4
7.5°	513.3	513.8	515.0	518.7	521.2
10°	509.2	509.6	512.1	515.8	519.5
12.5°	506.4	506.8	508.0	512.5	516.2
15°	495.7	497.7	503.9	507.6	511.7
17.5°	487.4	489.9	498.1	501.4	506.4
20°	478.0	480.9	487.4	494.8	499.8
22.5°	468.1	471.4	478.0	486.6	492.0
25°	455.8	459.9	467.7	477.6	482.9
27.5°	443.4	447.5	455.3	468.9	472.6
30°	429.0	433.5	442.2	455.3	460.3
32.5°	414.2	418.3	427.4	441.0	446.7
35°	399.0	402.3	411.7	424.5	431.9
37.5°	381.7	385.0	395.7	408.0	413.8
40°	364.0	366.5	377.2	389.5	395.7
42.5°	345.1	347.6	357.5	370.2	377.2
45°	325.8	327.4	337.3	350.5	356.2
47.5°	305.2	306.9	317.1	327.8	333.2
50°	285.5	284.6	293.7	303.6	308.9
52.5°	261.2	261.6	269.4	278.9	285.1
55°	237.8	237.3	245.6	254.6	259.1
57.5°	216.0	214.3	221.3	227.5	232.8
60°	192.9	191.3	196.6	203.2	206.1
62.5°	170.7	168.6	174.0	177.7	180.6
65°	149.3	147.3	150.5	153.4	156.7
67.5°	129.2	126.7	129.6	131.2	133.7
70°	109.4	107.4	107.8	109.8	110.6
72.5°	92.6	88.4	88.8	88.8	90.1
75°	75.7	71.2	70.3	69.9	71.2
77.5°	58.8	55.1	53.9	53.5	53.5
80°	45.2	40.3	38.7	37.4	37.4
82.5°	29.6	28.0	25.1	23.4	22.6
85°	18.1	15.6	13.2	11.9	11.5
87.5°	7.0	5.8	4.9	4.9	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)