

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: P229698

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229698  
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-L930-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (126)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1307.0 lumens  
Efficiency: N/A  
Efficacy: 79.7 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

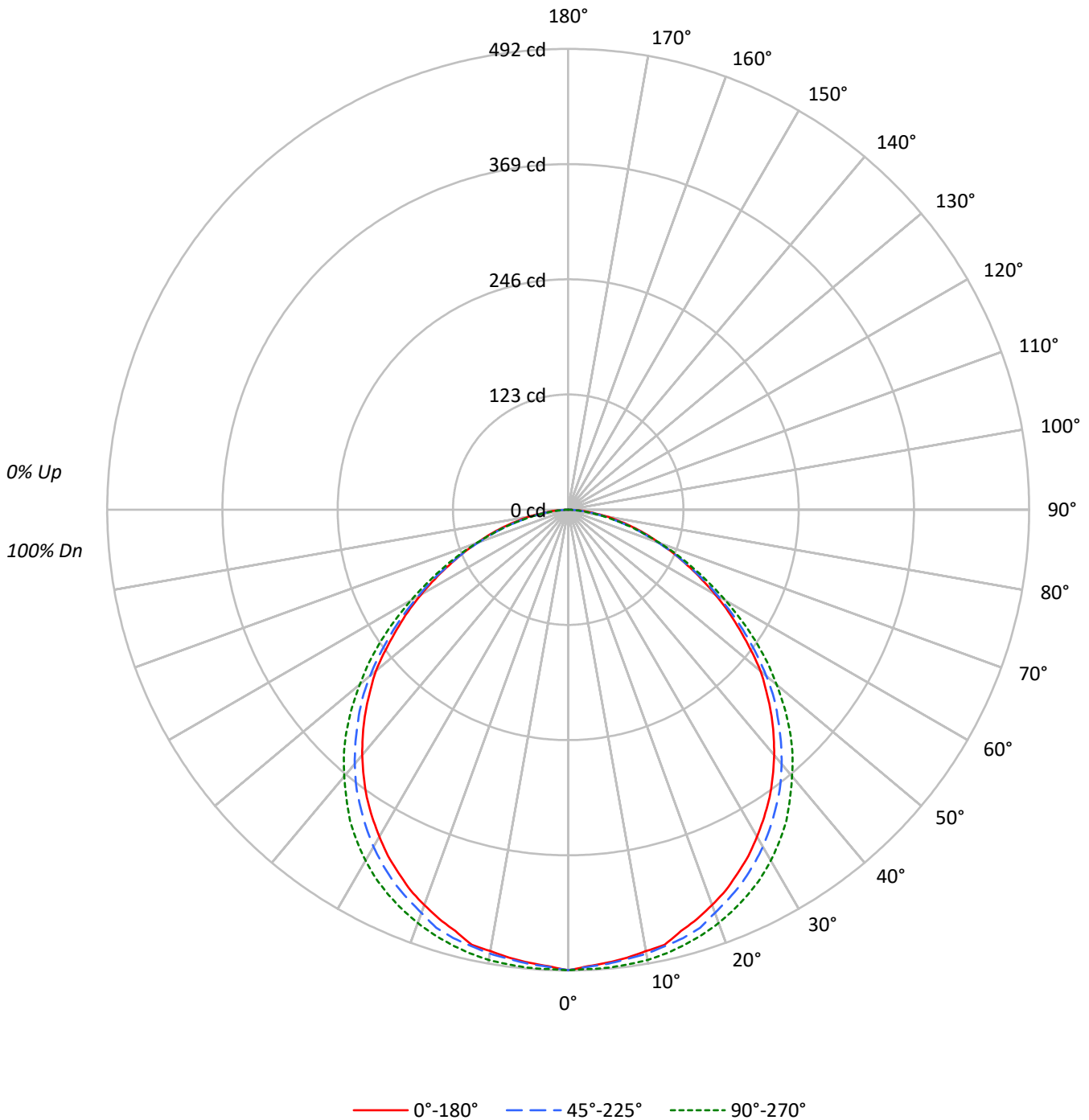
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1574	1574	1574
5°	1560	1564	1578
10°	1556	1565	1587
15°	1544	1570	1594
20°	1531	1561	1600
25°	1513	1553	1603
30°	1491	1537	1599
35°	1466	1513	1587
40°	1430	1482	1554
45°	1386	1435	1516
50°	1336	1375	1446
55°	1247	1288	1360
60°	1161	1183	1240
65°	1063	1072	1116
70°	963	949	974
75°	880	818	828
80°	784	669	649
85°	625	456	397



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.4	3.5
10°-20°	133.5	10.2
20°-30°	202.9	15.5
30°-40°	242.8	18.6
40°-50°	245.2	18.8
50°-60°	206.9	15.8
60°-70°	141.2	10.8
70°-80°	71.7	5.5
80°-90°	16.5	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°	382.7	29.3
0°-40°	625.5	47.9
0°-60°	1077.6	82.4
0°-90°	1307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1307.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	485	485	487	489	491	46
15°	466	468	474	477	481	132
25°	428	432	439	449	454	197
35°	375	378	387	399	406	234
45°	306	308	317	329	335	236
55°	223	223	231	239	244	200
65°	140	138	142	144	147	140
75°	71	67	66	66	67	75
85°	17	15	12	11	11	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	491.6	491.6	491.6	491.6	491.6
2.5°	487.8	487.8	488.5	491.2	490.9
5°	485.4	485.4	486.6	488.9	490.9
7.5°	482.3	482.7	483.9	487.4	489.7
10°	478.5	478.9	481.2	484.7	488.1
12.5°	475.8	476.2	477.3	481.6	485.1
15°	465.7	467.7	473.5	476.9	480.8
17.5°	458.0	460.3	468.0	471.1	475.8
20°	449.1	451.8	458.0	465.0	469.6
22.5°	439.8	442.9	449.1	457.2	462.2
25°	428.2	432.1	439.4	448.7	453.7
27.5°	416.6	420.5	427.9	440.6	444.1
30°	403.1	407.4	415.5	427.9	432.5
32.5°	389.2	393.1	401.6	414.3	419.7
35°	374.9	378.0	386.9	398.9	405.8
37.5°	358.7	361.8	371.8	383.4	388.8
40°	342.0	344.4	354.4	366.0	371.8
42.5°	324.3	326.6	335.9	347.8	354.4
45°	306.1	307.7	316.9	329.3	334.7
47.5°	286.8	288.3	298.0	308.0	313.1
50°	268.2	267.5	276.0	285.2	290.3
52.5°	245.4	245.8	253.2	262.0	267.8
55°	223.4	223.0	230.7	239.2	243.5
57.5°	202.9	201.4	207.9	213.7	218.8
60°	181.3	179.7	184.7	190.9	193.6
62.5°	160.4	158.5	163.5	167.0	169.7
65°	140.3	138.4	141.5	144.2	147.3
67.5°	121.4	119.0	121.7	123.3	125.6
70°	102.8	100.9	101.3	103.2	104.0
72.5°	87.0	83.1	83.5	83.5	84.6
75°	71.1	66.9	66.1	65.7	66.9
77.5°	55.3	51.8	50.6	50.2	50.2
80°	42.5	37.9	36.3	35.2	35.2
82.5°	27.8	26.3	23.6	22.0	21.3
85°	17.0	14.7	12.4	11.2	10.8
87.5°	6.6	5.4	4.6	4.6	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)