

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: P229527

Luminaire Tested: **14RLN-LD5-23-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36064)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-23-UNV-L930-CD1-SVPD1-U  
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR  
Light Source: (112)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1919.0 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

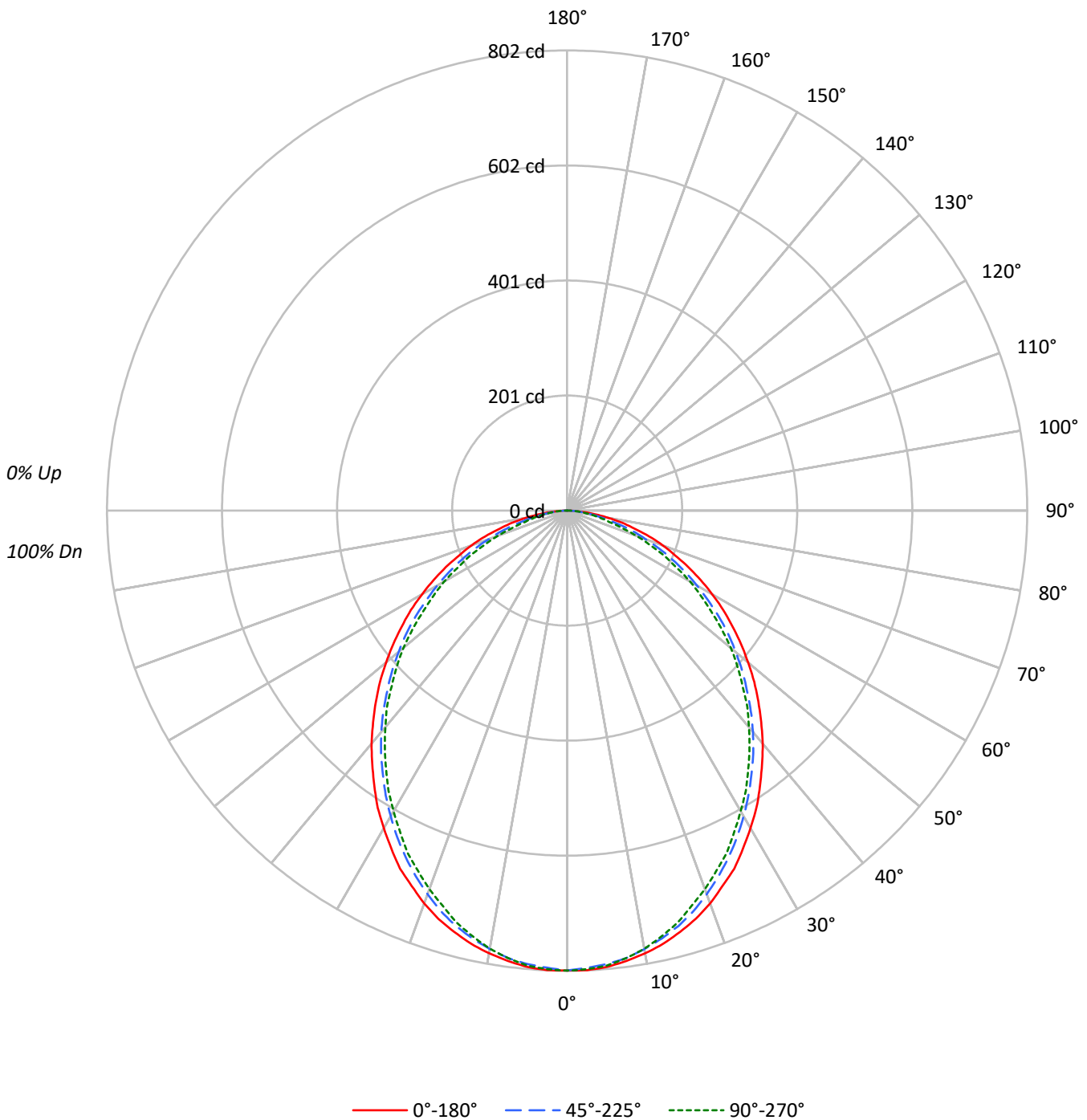
Input Watts (W): 21.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

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

	0°	45°	90°
0°	2701	2701	2701
5°	2701	2684	2692
10°	2681	2655	2652
15°	2652	2614	2594
20°	2613	2551	2518
25°	2561	2478	2447
30°	2487	2393	2354
35°	2410	2304	2263
40°	2333	2216	2169
45°	2246	2112	2061
50°	2158	2010	1953
55°	2067	1896	1799
60°	1969	1762	1667
65°	1859	1615	1496
70°	1750	1431	1267
75°	1578	1221	983
80°	1401	966	869
85°	1156	769	800



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.4	3.9
10°-20°	211.4	11.0
20°-30°	308.2	16.1
30°-40°	353.3	18.4
40°-50°	345.4	18.0
50°-60°	291.4	15.2
60°-70°	203.7	10.6
70°-80°	103.9	5.4
80°-90°	26.2	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°	595.1	31.0
0°-40°	948.4	49.4
0°-60°	1585.2	82.6
0°-90°	1919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1919.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	798	797	793	796	796	76
15°	760	758	749	747	744	214
25°	689	680	666	660	658	316
35°	586	578	560	554	550	367
45°	471	459	443	437	432	364
55°	352	339	323	314	306	315
65°	233	219	202	191	188	231
75°	121	111	94	82	76	130
85°	30	22	20	21	21	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	801.7	801.7	801.7	801.7	801.7
2.5°	801.7	800.1	797.6	800.9	800.1
5°	798.4	796.7	793.4	795.9	795.9
7.5°	791.8	790.1	786.8	788.4	786.8
10°	783.5	781.8	776.0	776.8	775.2
12.5°	773.5	770.2	763.5	762.7	760.2
15°	760.2	757.7	749.4	746.9	743.6
17.5°	746.1	741.1	732.0	727.0	722.0
20°	728.7	722.0	711.3	705.4	702.1
22.5°	707.9	703.0	689.7	683.0	679.7
25°	688.8	680.5	666.4	659.8	658.1
27.5°	664.0	657.3	641.5	635.7	630.8
30°	639.1	631.6	615.0	609.2	605.0
32.5°	614.2	605.9	588.4	581.8	579.3
35°	585.9	577.6	560.2	554.4	550.2
37.5°	557.7	547.8	532.8	526.2	522.0
40°	530.3	518.7	503.8	496.3	493.0
42.5°	500.5	488.0	473.9	466.4	464.8
45°	471.4	459.0	443.2	437.4	432.4
47.5°	442.4	428.2	414.1	405.8	402.5
50°	411.6	398.4	383.4	375.1	372.6
52.5°	381.8	368.5	354.4	345.3	339.4
55°	351.9	338.6	322.8	313.7	306.2
57.5°	322.8	307.1	291.3	280.5	276.4
60°	292.1	278.0	261.4	250.6	247.3
62.5°	262.3	249.8	232.4	219.9	214.1
65°	233.2	219.1	202.5	190.9	187.6
67.5°	203.3	190.9	174.3	161.0	155.2
70°	177.6	161.8	145.2	133.6	128.6
72.5°	150.2	136.1	120.3	107.1	99.6
75°	121.2	111.2	93.8	82.2	75.5
77.5°	97.9	86.3	70.5	61.4	59.8
80°	72.2	63.1	49.8	45.6	44.8
82.5°	50.6	41.5	34.0	32.4	31.5
85°	29.9	22.4	19.9	20.7	20.7
87.5°	12.4	9.1	9.1	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)