

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: P229664

Luminaire Tested: **22RLN-LD5-31-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229664  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36063)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-31-UNV-L930-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR  
Light Source: (126)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2523.0 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.29  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

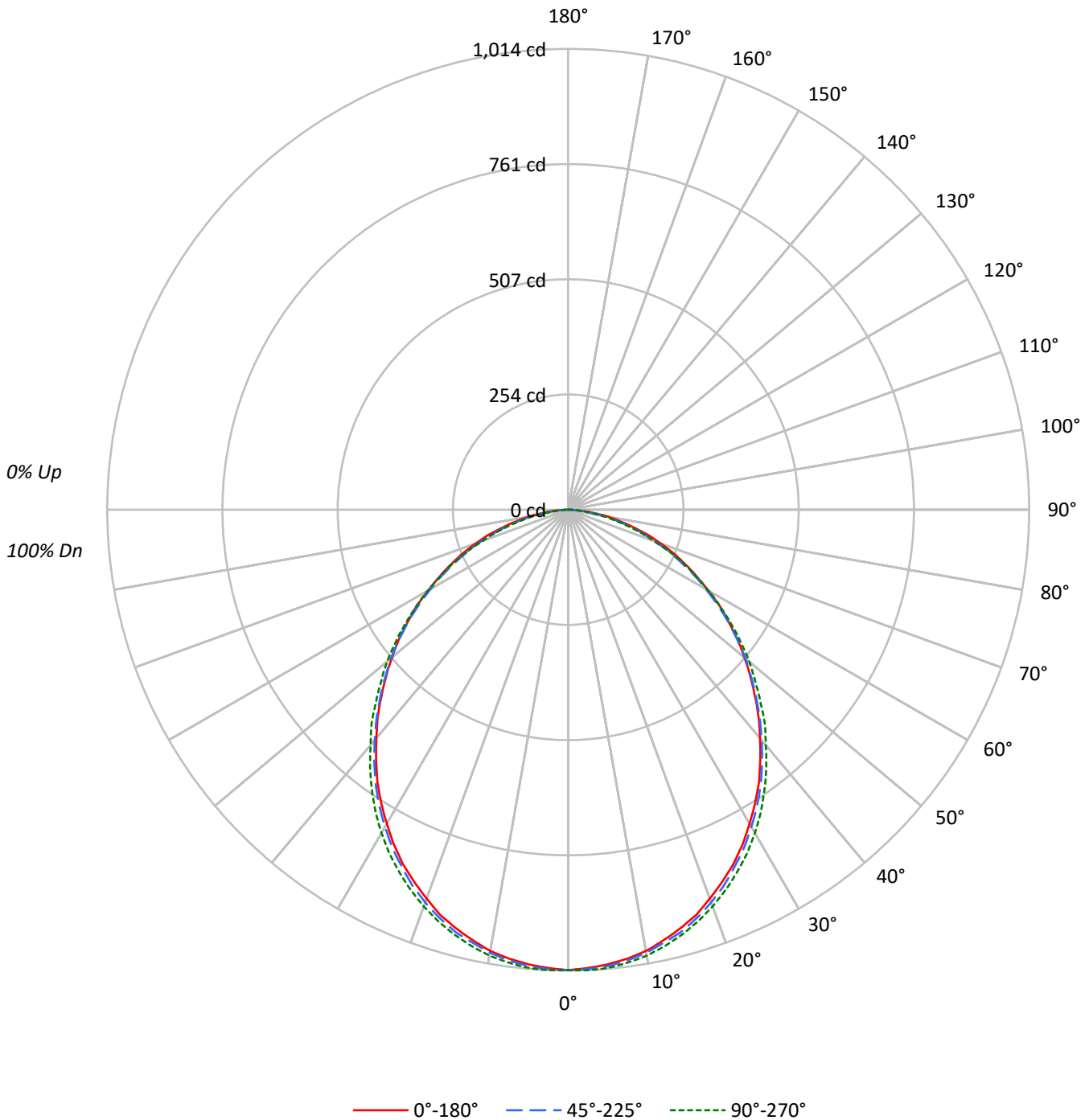
Input Watts (W): 26.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	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	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	58	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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

	0°	45°	90°
0°	3245	3245	3245
5°	3228	3240	3253
10°	3206	3219	3240
15°	3161	3187	3208
20°	3103	3134	3165
25°	3039	3062	3108
30°	2950	2979	3036
35°	2860	2886	2942
40°	2744	2766	2825
45°	2632	2650	2708
50°	2521	2534	2592
55°	2405	2398	2441
60°	2276	2243	2285
65°	2153	2074	2123
70°	2016	1907	1871
75°	1830	1685	1621
80°	1651	1435	1339
85°	1286	999	856



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.6	3.8
10°-20°	270.7	10.7
20°-30°	399.7	15.8
30°-40°	462.2	18.3
40°-50°	453.3	18.0
50°-60°	385.6	15.3
60°-70°	274.6	10.9
70°-80°	146.5	5.8
80°-90°	34.8	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°	766.0	30.4
0°-40°	1228.2	48.7
0°-60°	2067.1	81.9
0°-90°	2523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2523.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1013	1013	1013	1013	1013	
5°	1004	1005	1008	1010	1012	95
15°	953	955	961	966	968	269
25°	860	861	866	876	880	395
35°	732	729	738	750	752	457
45°	581	580	585	595	598	449
55°	431	427	429	435	437	386
65°	284	275	274	275	280	282
75°	148	140	136	134	131	158
85°	35	31	27	23	23	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1013.1	1013.1	1013.1	1013.1	1013.1
2.5°	1009.2	1010.5	1011.8	1014.4	1014.4
5°	1004.0	1005.3	1007.9	1010.5	1011.8
7.5°	996.3	996.3	1000.1	1002.7	1005.3
10°	985.9	987.2	989.8	993.7	996.3
12.5°	970.3	972.9	975.5	980.7	983.3
15°	953.4	954.7	961.2	966.4	967.7
17.5°	935.3	935.3	941.8	947.0	949.6
20°	910.6	913.2	919.7	926.2	928.8
22.5°	886.0	888.6	895.1	901.6	905.4
25°	860.0	861.3	866.5	875.6	879.5
27.5°	830.2	832.8	838.0	847.1	852.3
30°	797.8	800.4	805.6	815.9	821.1
32.5°	765.4	767.9	773.1	783.5	788.7
35°	731.6	729.0	738.1	749.8	752.4
37.5°	694.0	695.3	700.5	710.9	716.1
40°	656.4	656.4	661.6	673.2	675.8
42.5°	620.1	618.8	624.0	634.3	640.8
45°	581.1	579.9	585.0	595.4	598.0
47.5°	543.5	540.9	546.1	555.2	557.8
50°	505.9	503.3	508.5	516.3	520.2
52.5°	469.6	464.4	468.3	474.8	478.7
55°	430.7	426.8	429.4	434.6	437.2
57.5°	395.6	387.9	389.2	394.4	396.9
60°	355.4	348.9	350.2	355.4	356.7
62.5°	319.1	312.6	312.6	313.9	316.5
65°	284.1	275.0	273.7	275.0	280.2
67.5°	250.4	241.3	238.7	238.7	240.0
70°	215.3	206.3	203.7	202.4	199.8
72.5°	182.9	171.2	169.9	166.0	167.3
75°	147.9	140.1	136.2	133.6	131.0
77.5°	116.7	110.3	105.1	101.2	101.2
80°	89.5	80.4	77.8	72.6	72.6
82.5°	59.7	55.8	50.6	46.7	45.4
85°	35.0	31.1	27.2	23.3	23.3
87.5°	13.0	10.4	9.1	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)