

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: P229700

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229700  
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-LD5-31-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: 2046.0 lumens  
Efficiency: N/A  
Efficacy: 76.9 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

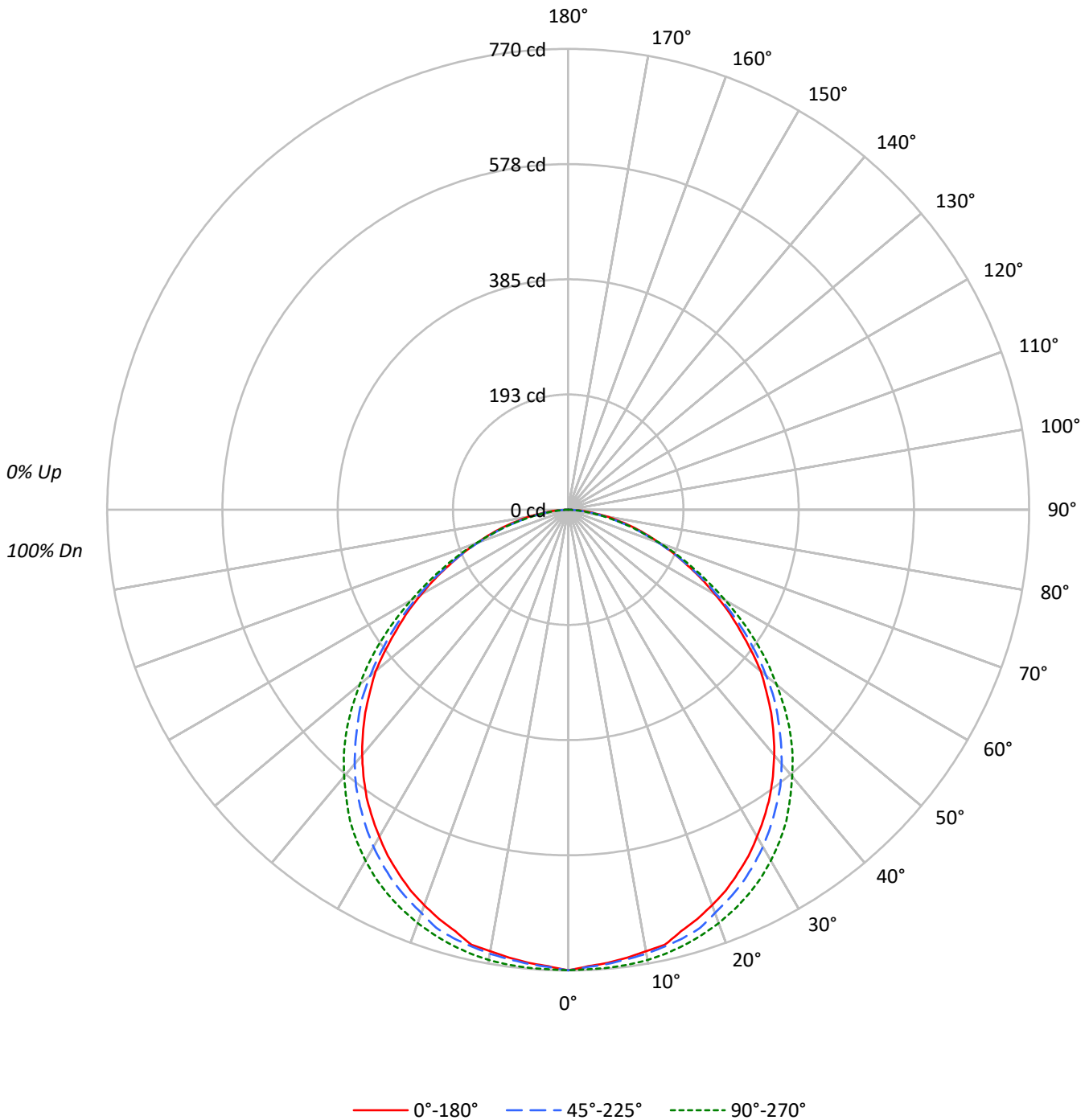
Input Watts (W): 26.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2465	2465	2465
5°	2443	2449	2470
10°	2436	2450	2485
15°	2417	2458	2496
20°	2396	2444	2505
25°	2369	2431	2510
30°	2333	2405	2504
35°	2295	2368	2484
40°	2238	2319	2433
45°	2170	2247	2373
50°	2092	2152	2264
55°	1953	2017	2128
60°	1818	1852	1941
65°	1664	1678	1747
70°	1507	1484	1524
75°	1377	1281	1296
80°	1228	1049	1016
85°	977	713	621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.6	3.5
10°-20°	209.0	10.2
20°-30°	317.6	15.5
30°-40°	380.1	18.6
40°-50°	383.9	18.8
50°-60°	323.8	15.8
60°-70°	221.1	10.8
70°-80°	112.2	5.5
80°-90°	25.9	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°	599.1	29.3
0°-40°	979.2	47.9
0°-60°	1686.9	82.4
0°-90°	2046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2046.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	770	770	770	770	770	
5°	760	760	762	765	768	72
15°	729	732	741	747	753	206
25°	670	676	688	702	710	309
35°	587	592	606	624	635	366
45°	479	482	496	516	524	369
55°	350	349	361	374	381	314
65°	220	217	221	226	230	218
75°	111	105	104	103	105	118
85°	27	23	19	18	17	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	769.6	769.6	769.6	769.6	769.6
2.5°	763.5	763.5	764.8	769.0	768.4
5°	759.9	759.9	761.7	765.4	768.4
7.5°	755.1	755.7	757.5	762.9	766.6
10°	749.0	749.6	753.3	758.7	764.1
12.5°	744.8	745.4	747.2	753.9	759.3
15°	729.1	732.1	741.2	746.6	752.7
17.5°	717.0	720.6	732.7	737.5	744.8
20°	703.0	707.3	717.0	727.8	735.1
22.5°	688.5	693.4	703.0	715.7	723.6
25°	670.4	676.4	687.9	702.4	710.3
27.5°	652.2	658.3	669.8	689.7	695.2
30°	631.0	637.7	650.4	669.8	677.0
32.5°	609.3	615.3	628.6	648.6	657.1
35°	586.9	591.7	605.6	624.4	635.3
37.5°	561.5	566.3	582.0	600.2	608.7
40°	535.4	539.1	554.8	573.0	582.0
42.5°	507.6	511.2	525.8	544.5	554.8
45°	479.2	481.6	496.1	515.5	524.0
47.5°	448.9	451.4	466.5	482.2	490.1
50°	419.9	418.7	432.0	446.5	454.4
52.5°	384.2	384.8	396.3	410.2	419.3
55°	349.7	349.1	361.2	374.5	381.2
57.5°	317.6	315.2	325.5	334.6	342.4
60°	283.8	281.3	289.2	298.9	303.1
62.5°	251.1	248.1	255.9	261.4	265.6
65°	219.6	216.6	221.4	225.7	230.5
67.5°	190.0	186.3	190.6	193.0	196.6
70°	160.9	157.9	158.5	161.5	162.8
72.5°	136.1	130.1	130.7	130.7	132.5
75°	111.3	104.7	103.5	102.9	104.7
77.5°	86.5	81.1	79.3	78.7	78.7
80°	66.6	59.3	56.9	55.1	55.1
82.5°	43.6	41.1	36.9	34.5	33.3
85°	26.6	23.0	19.4	17.5	16.9
87.5°	10.3	8.5	7.3	7.3	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)