

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: P229699

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229699  
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-LD5-25-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: 1649.0 lumens  
Efficiency: N/A  
Efficacy: 78.9 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

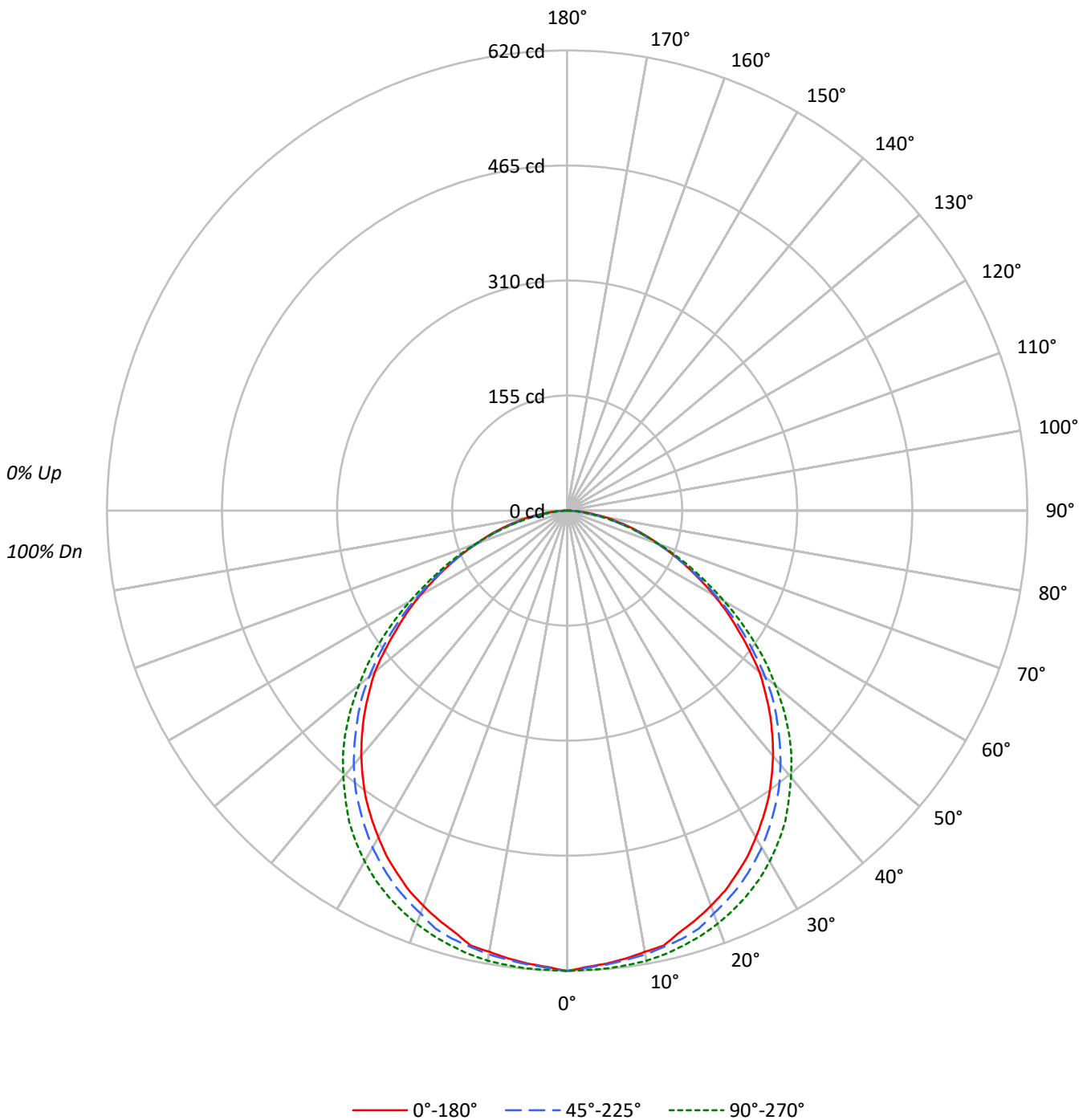
Input Watts (W): 20.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1987	1987	1987
5°	1969	1974	1991
10°	1963	1974	2003
15°	1948	1980	2011
20°	1931	1969	2019
25°	1909	1959	2023
30°	1881	1939	2018
35°	1849	1908	2002
40°	1804	1870	1961
45°	1749	1811	1913
50°	1686	1735	1825
55°	1573	1625	1715
60°	1465	1493	1565
65°	1341	1353	1408
70°	1214	1197	1229
75°	1110	1032	1044
80°	989	845	819
85°	790	573	503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.5	3.5
10°-20°	168.4	10.2
20°-30°	256.0	15.5
30°-40°	306.3	18.6
40°-50°	309.4	18.8
50°-60°	261.0	15.8
60°-70°	178.2	10.8
70°-80°	90.4	5.5
80°-90°	20.8	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°	482.9	29.3
0°-40°	789.2	47.9
0°-60°	1359.6	82.4
0°-90°	1649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1649.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	612	612	614	617	619	58
15°	588	590	597	602	607	166
25°	540	545	554	566	572	249
35°	473	477	488	503	512	295
45°	386	388	400	416	422	298
55°	282	281	291	302	307	253
65°	177	175	178	182	186	176
75°	90	84	83	83	84	95
85°	22	18	16	14	14	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	620.3	620.3	620.3	620.3	620.3
2.5°	615.4	615.4	616.4	619.8	619.3
5°	612.5	612.5	613.9	616.9	619.3
7.5°	608.6	609.0	610.5	614.9	617.8
10°	603.7	604.2	607.1	611.5	615.9
12.5°	600.3	600.8	602.2	607.6	612.0
15°	587.6	590.0	597.3	601.7	606.6
17.5°	577.8	580.8	590.5	594.4	600.3
20°	566.6	570.0	577.8	586.6	592.5
22.5°	554.9	558.8	566.6	576.9	583.2
25°	540.3	545.2	554.4	566.1	572.5
27.5°	525.7	530.5	539.8	555.9	560.3
30°	508.6	514.0	524.2	539.8	545.7
32.5°	491.0	495.9	506.6	522.7	529.6
35°	473.0	476.9	488.1	503.2	512.0
37.5°	452.5	456.4	469.1	483.7	490.6
40°	431.6	434.5	447.2	461.8	469.1
42.5°	409.1	412.0	423.8	438.9	447.2
45°	386.2	388.2	399.9	415.5	422.3
47.5°	361.8	363.8	376.0	388.6	395.0
50°	338.4	337.4	348.2	359.9	366.2
52.5°	309.6	310.1	319.4	330.6	337.9
55°	281.8	281.4	291.1	301.8	307.2
57.5°	256.0	254.1	262.3	269.7	276.0
60°	228.7	226.7	233.1	240.9	244.3
62.5°	202.4	199.9	206.3	210.7	214.1
65°	177.0	174.6	178.5	181.9	185.8
67.5°	153.1	150.2	153.6	155.6	158.5
70°	129.7	127.3	127.8	130.2	131.2
72.5°	109.7	104.8	105.3	105.3	106.8
75°	89.7	84.4	83.4	82.9	84.4
77.5°	69.7	65.3	63.9	63.4	63.4
80°	53.6	47.8	45.8	44.4	44.4
82.5°	35.1	33.2	29.7	27.8	26.8
85°	21.5	18.5	15.6	14.1	13.7
87.5°	8.3	6.8	5.9	5.9	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)