

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: P229627

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-25-RDP-UNV-L930-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1712.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

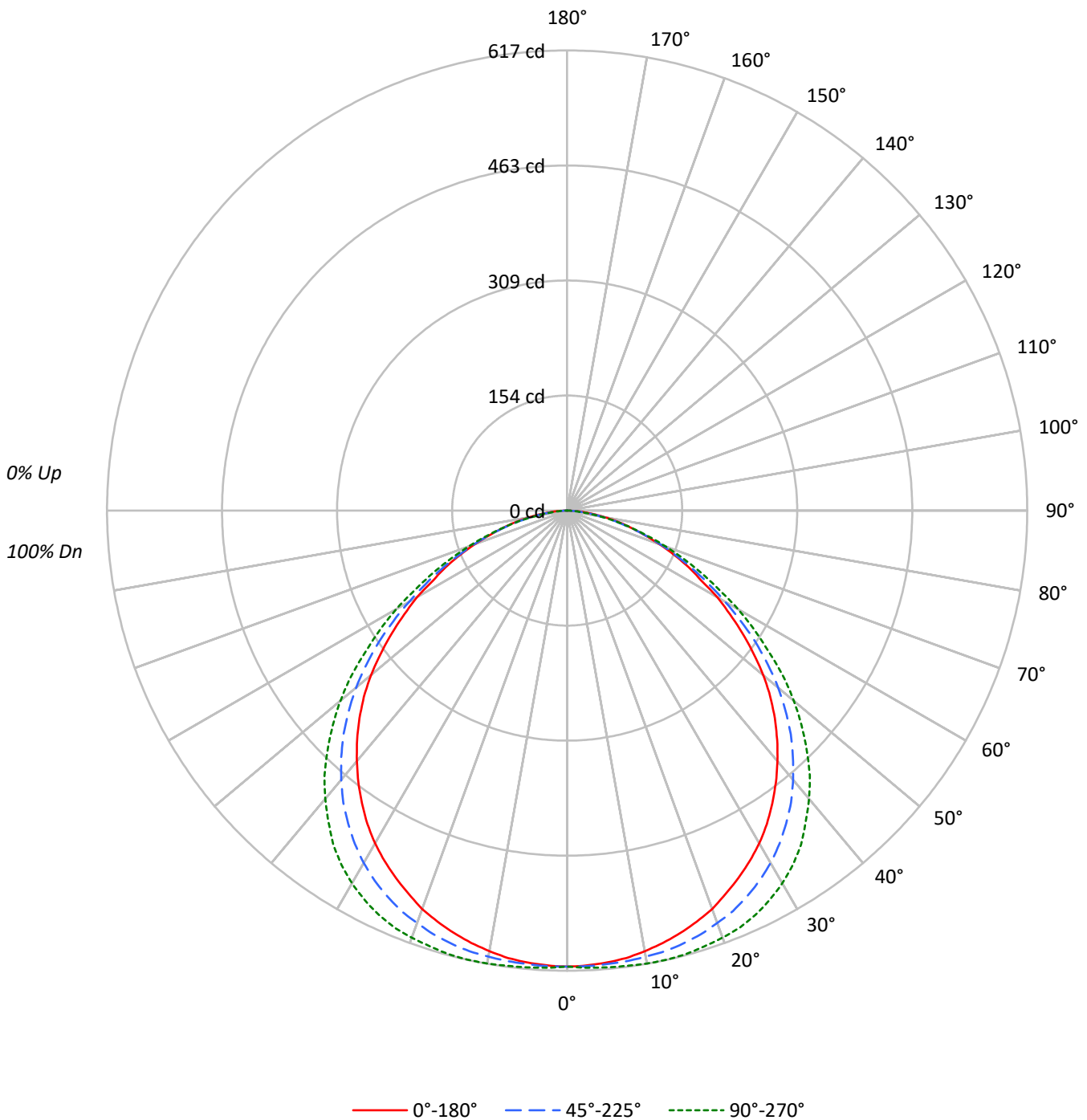
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1958	1958	1958
5°	1956	1963	1976
10°	1951	1975	2006
15°	1944	1993	2041
20°	1938	2006	2077
25°	1921	2017	2113
30°	1905	2018	2134
35°	1875	2002	2137
40°	1834	1970	2110
45°	1783	1921	2059
50°	1711	1841	1978
55°	1602	1725	1842
60°	1489	1569	1697
65°	1365	1413	1508
70°	1235	1255	1314
75°	1089	1063	1101
80°	946	869	830
85°	768	577	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	3.4
10°-20°	169.8	9.9
20°-30°	263.1	15.4
30°-40°	320.2	18.7
40°-50°	326.1	19.0
50°-60°	275.0	16.1
60°-70°	186.0	10.9
70°-80°	93.0	5.4
80°-90°	20.7	1.2
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°	491.1	28.7
0°-40°	811.3	47.4
0°-60°	1412.4	82.5
0°-90°	1712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	608	609	610	614	615	58
15°	586	591	601	612	616	166
25°	544	552	571	590	598	251
35°	480	490	512	536	547	300
45°	394	401	424	446	454	303
55°	287	291	309	324	330	257
65°	180	177	186	195	199	178
75°	88	85	86	87	89	94
85°	21	18	16	14	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	611.5	611.5	611.5	611.5	611.5
2.5°	610.5	610.5	611.5	612.6	613.6
5°	608.4	609.4	610.5	613.6	614.7
7.5°	605.2	606.3	609.4	613.6	615.7
10°	600.0	602.1	607.3	613.6	616.8
12.5°	593.7	596.9	605.2	612.6	616.8
15°	586.4	590.6	601.1	611.5	615.7
17.5°	578.0	583.3	595.8	607.3	612.6
20°	568.6	574.9	588.5	603.2	609.4
22.5°	556.0	564.4	581.2	597.9	605.2
25°	543.5	551.8	570.7	589.5	597.9
27.5°	529.9	539.3	559.2	580.1	588.5
30°	515.2	523.6	545.6	567.6	577.0
32.5°	498.4	506.8	529.9	552.9	563.4
35°	479.6	490.1	512.1	536.1	546.6
37.5°	459.7	469.1	493.2	516.2	525.7
40°	438.8	448.2	471.2	495.3	504.7
42.5°	416.8	426.2	448.2	471.2	481.7
45°	393.7	401.1	424.1	446.1	454.5
47.5°	369.6	374.9	396.9	417.8	426.2
50°	343.5	348.7	369.6	388.5	396.9
52.5°	315.2	319.4	339.3	356.0	365.5
55°	286.9	291.1	308.9	323.6	329.9
57.5°	258.6	260.7	276.4	291.1	297.4
60°	232.5	232.5	245.0	256.6	264.9
62.5°	202.1	205.2	214.7	226.2	229.3
65°	180.1	177.0	186.4	194.8	199.0
67.5°	155.0	152.9	159.2	166.5	168.6
70°	131.9	128.8	134.0	138.2	140.3
72.5°	107.9	106.8	108.9	112.0	113.1
75°	88.0	84.8	85.9	86.9	89.0
77.5°	70.2	64.9	66.0	64.9	66.0
80°	51.3	47.1	47.1	46.1	45.0
82.5°	34.6	32.5	30.4	28.3	27.2
85°	20.9	17.8	15.7	13.6	13.6
87.5°	8.4	6.3	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)