

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: P229705

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229705  
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-L935-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (126)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1711.0 lumens  
Efficiency: N/A  
Efficacy: 81.9 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

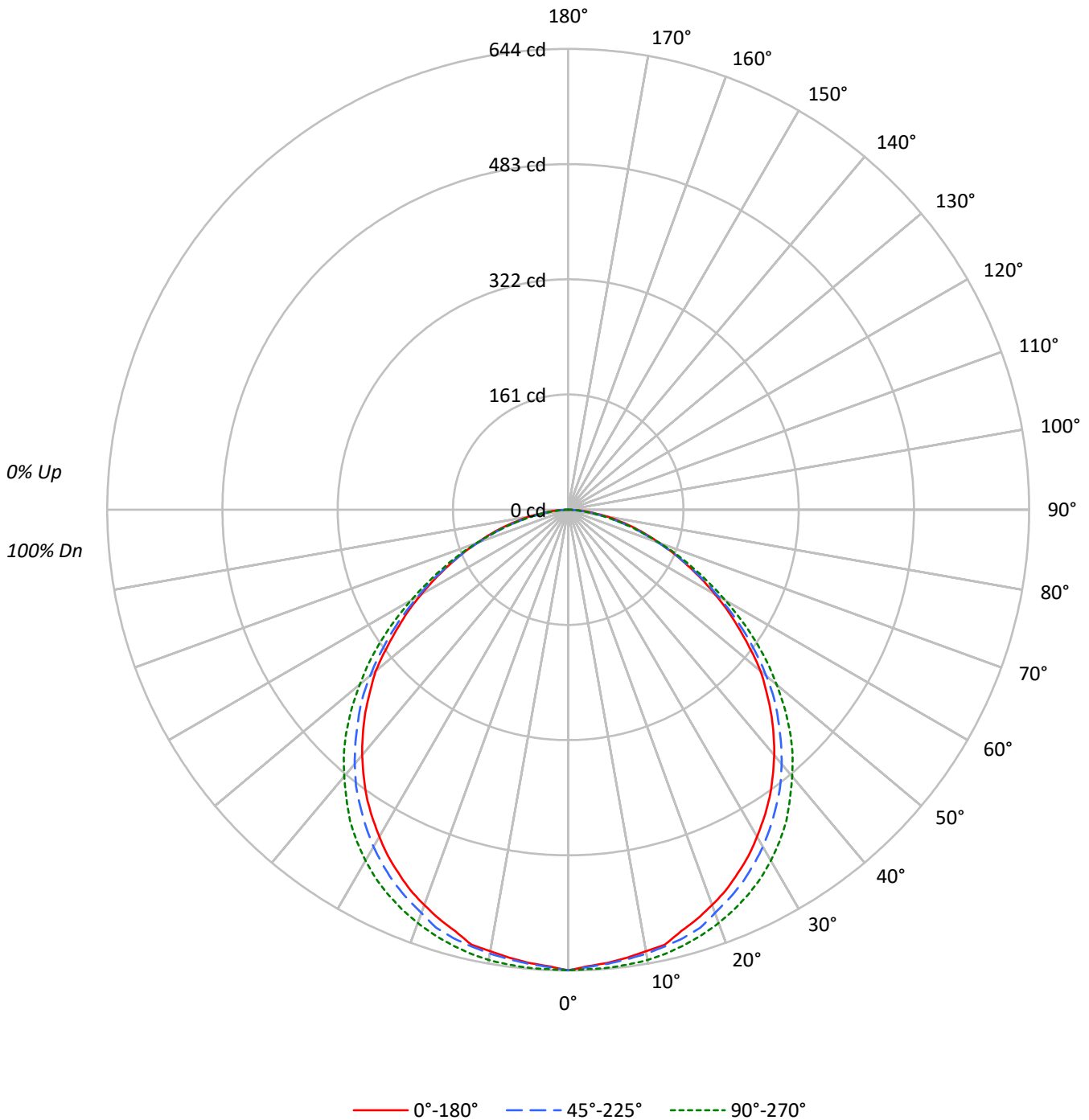
Input Watts (W): 20.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2061	2061	2061
5°	2043	2048	2066
10°	2037	2048	2078
15°	2022	2055	2087
20°	2004	2044	2095
25°	1981	2033	2099
30°	1951	2011	2094
35°	1919	1980	2077
40°	1872	1940	2035
45°	1815	1879	1985
50°	1749	1800	1893
55°	1633	1687	1780
60°	1520	1549	1624
65°	1392	1403	1461
70°	1260	1242	1274
75°	1152	1070	1083
80°	1027	878	848
85°	819	595	522



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	3.5
10°-20°	174.8	10.2
20°-30°	265.6	15.5
30°-40°	317.9	18.6
40°-50°	321.0	18.8
50°-60°	270.8	15.8
60°-70°	184.9	10.8
70°-80°	93.8	5.5
80°-90°	21.6	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°	501.0	29.3
0°-40°	818.9	47.9
0°-60°	1410.7	82.4
0°-90°	1711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1711.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	636	636	637	640	643	60
15°	610	612	620	624	629	172
25°	561	566	575	587	594	258
35°	491	495	506	522	531	306
45°	401	403	415	431	438	309
55°	292	292	302	313	319	262
65°	184	181	185	189	193	183
75°	93	88	86	86	88	99
85°	22	19	16	15	14	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	643.6	643.6	643.6	643.6	643.6
2.5°	638.5	638.5	639.5	643.1	642.6
5°	635.5	635.5	637.0	640.0	642.6
7.5°	631.4	631.9	633.5	638.0	641.1
10°	626.4	626.9	629.9	634.5	639.0
12.5°	622.8	623.3	624.9	630.4	635.0
15°	609.7	612.2	619.8	624.4	629.4
17.5°	599.6	602.6	612.7	616.8	622.8
20°	587.9	591.5	599.6	608.7	614.7
22.5°	575.8	579.8	587.9	598.6	605.1
25°	560.6	565.7	575.3	587.4	594.0
27.5°	545.4	550.5	560.1	576.8	581.4
30°	527.7	533.3	543.9	560.1	566.2
32.5°	509.5	514.6	525.7	542.4	549.5
35°	490.8	494.8	506.5	522.2	531.3
37.5°	469.5	473.6	486.7	501.9	509.0
40°	447.8	450.8	464.0	479.1	486.7
42.5°	424.5	427.5	439.7	455.4	464.0
45°	400.7	402.7	414.9	431.1	438.2
47.5°	375.4	377.4	390.1	403.3	409.8
50°	351.1	350.1	361.3	373.4	380.0
52.5°	321.3	321.8	331.4	343.0	350.6
55°	292.4	291.9	302.1	313.2	318.8
57.5°	265.6	263.6	272.2	279.8	286.4
60°	237.3	235.3	241.9	249.9	253.5
62.5°	210.0	207.4	214.0	218.6	222.1
65°	183.7	181.1	185.2	188.7	192.8
67.5°	158.9	155.8	159.4	161.4	164.4
70°	134.6	132.1	132.6	135.1	136.1
72.5°	113.8	108.8	109.3	109.3	110.8
75°	93.1	87.5	86.5	86.0	87.5
77.5°	72.4	67.8	66.3	65.8	65.8
80°	55.7	49.6	47.6	46.0	46.0
82.5°	36.4	34.4	30.9	28.8	27.8
85°	22.3	19.2	16.2	14.7	14.2
87.5°	8.6	7.1	6.1	6.1	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)