

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: P229596

Luminaire Tested: **22RLN-LD5-20-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-20-UNV-L935-CD1-U  
Description: METALUX 2X2 RLN LED TROFFER  
Light Source: (126)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1736.0 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

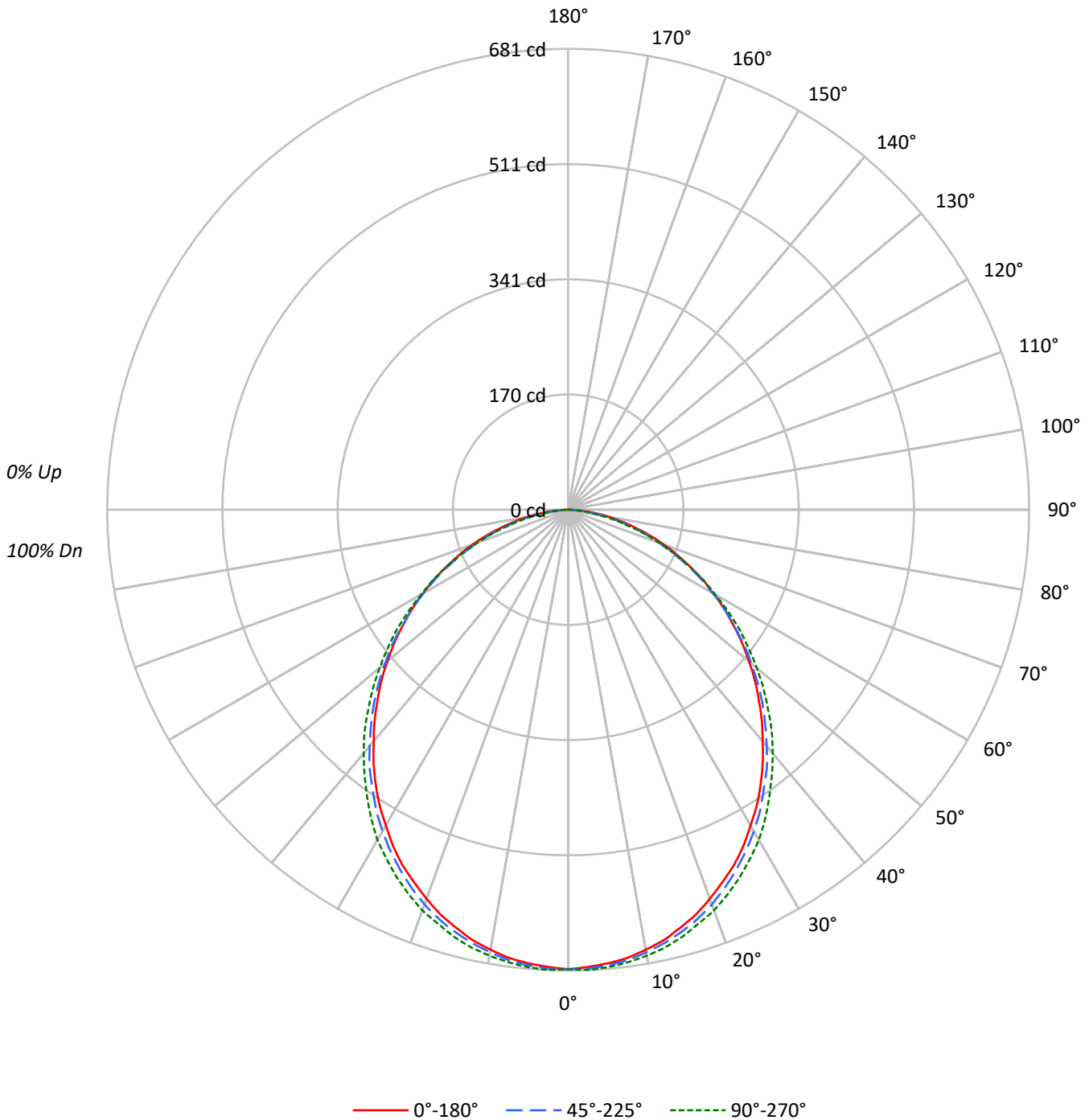
Input Watts (W): 16.43  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
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	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	2175	2175	2175
5°	2164	2173	2181
10°	2148	2160	2176
15°	2120	2142	2166
20°	2085	2115	2147
25°	2048	2075	2118
30°	1992	2029	2084
35°	1938	1969	2024
40°	1868	1907	1965
45°	1804	1839	1892
50°	1738	1757	1813
55°	1666	1668	1727
60°	1586	1579	1604
65°	1501	1468	1489
70°	1406	1334	1340
75°	1273	1172	1137
80°	1127	985	913
85°	911	687	588



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.2	3.7
10°-20°	182.2	10.5
20°-30°	270.8	15.6
30°-40°	316.1	18.2
40°-50°	313.8	18.1
50°-60°	269.3	15.5
60°-70°	193.3	11.1
70°-80°	102.4	5.9
80°-90°	24.0	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°	517.2	29.8
0°-40°	833.3	48.0
0°-60°	1416.3	81.6
0°-90°	1736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1736.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	679	679	679	679	679	
5°	673	674	676	678	678	64
15°	640	642	646	651	653	180
25°	580	581	587	596	599	266
35°	496	498	504	514	518	310
45°	398	400	406	413	418	308
55°	298	297	299	305	309	267
65°	198	193	194	195	196	197
75°	103	98	95	94	92	110
85°	25	22	19	16	16	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	679.1	679.1	679.1	679.1	679.1
2.5°	676.3	676.9	678.5	680.2	680.7
5°	673.0	674.1	675.8	678.0	678.5
7.5°	668.1	669.2	671.4	673.6	674.7
10°	660.4	662.0	664.2	668.1	669.2
12.5°	651.6	652.7	656.0	660.4	662.6
15°	639.5	641.7	646.1	651.0	653.2
17.5°	627.3	629.0	634.5	639.5	641.1
20°	611.9	615.2	620.7	626.8	630.1
22.5°	595.4	598.2	604.8	611.9	615.2
25°	579.5	581.1	587.2	596.0	599.3
27.5°	560.2	561.9	568.5	577.3	581.7
30°	538.7	541.5	548.7	558.6	563.5
32.5°	518.4	520.6	527.7	536.5	541.5
35°	495.8	497.5	503.5	514.5	517.8
37.5°	472.2	473.8	482.1	490.3	494.2
40°	446.8	449.0	456.2	464.5	470.0
42.5°	423.7	424.8	430.9	440.2	445.2
45°	398.4	400.1	406.1	413.3	417.7
47.5°	374.2	373.7	379.7	388.0	391.3
50°	348.9	347.8	352.7	361.0	363.8
52.5°	323.6	321.9	327.4	333.5	335.7
55°	298.3	296.6	298.8	305.4	309.3
57.5°	273.5	270.7	273.5	276.8	280.1
60°	247.6	243.2	246.5	250.4	250.4
62.5°	224.0	219.0	220.7	223.4	225.1
65°	198.1	193.2	193.7	195.4	196.5
67.5°	173.9	168.9	167.8	168.4	168.9
70°	150.2	144.7	142.5	141.4	143.1
72.5°	126.0	120.5	119.4	117.2	117.8
75°	102.9	98.0	94.7	93.6	91.9
77.5°	80.9	76.5	73.7	70.4	69.9
80°	61.1	55.6	53.4	51.2	49.5
82.5°	42.9	38.0	34.1	31.9	30.3
85°	24.8	21.5	18.7	16.0	16.0
87.5°	9.9	7.7	6.6	6.1	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)