

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: P229707

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229707  
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-LD5-35-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: 2393.0 lumens  
Efficiency: N/A  
Efficacy: 78.2 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

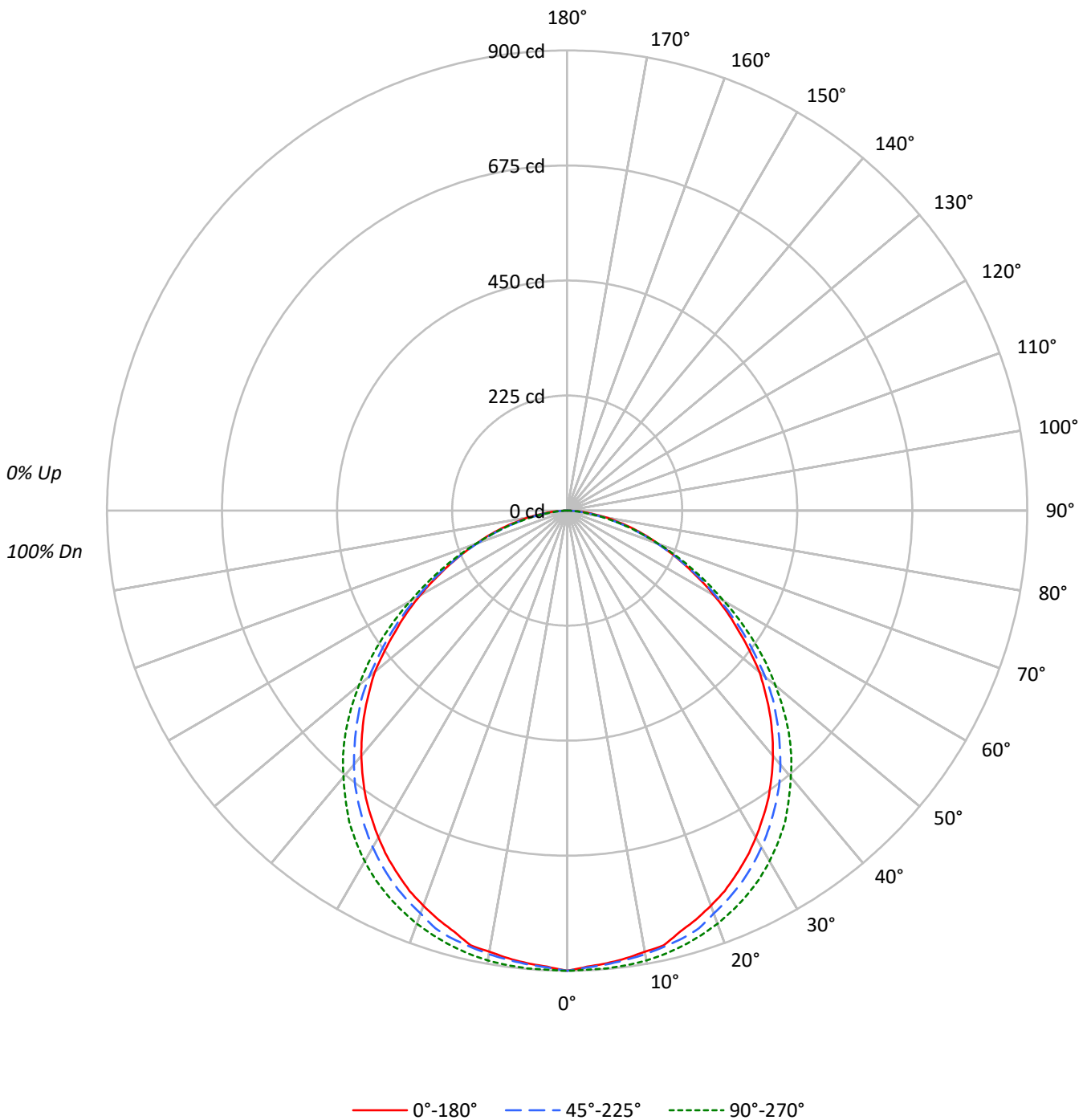
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P229707

CATALOG NUMBER: 22RLN-LD5-35-RDP-UNV-L935-CD1-SVPD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P229707

CATALOG NUMBER: 22RLN-LD5-35-RDP-UNV-L935-CD1-SVPD1-U

**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	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°	2883	2883	2883
5°	2857	2864	2889
10°	2849	2865	2906
15°	2827	2874	2919
20°	2803	2858	2930
25°	2771	2843	2936
30°	2730	2813	2928
35°	2684	2769	2905
40°	2618	2713	2846
45°	2539	2628	2775
50°	2447	2518	2648
55°	2284	2359	2489
60°	2126	2167	2271
65°	1947	1963	2043
70°	1762	1736	1783
75°	1611	1497	1515
80°	1435	1226	1188
85°	1143	830	728



TEST NUMBER: P229707

CATALOG NUMBER: 22RLN-LD5-35-RDP-UNV-L935-CD1-SVPD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.9	3.5
10°-20°	244.4	10.2
20°-30°	371.5	15.5
30°-40°	444.6	18.6
40°-50°	449.0	18.8
50°-60°	378.8	15.8
60°-70°	258.6	10.8
70°-80°	131.2	5.5
80°-90°	30.2	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°	700.7	29.3
0°-40°	1145.3	47.9
0°-60°	1973.0	82.4
0°-90°	2393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2393.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	889	889	891	895	899	84
15°	853	856	867	873	880	241
25°	784	791	805	822	831	361
35°	686	692	708	730	743	429
45°	560	563	580	603	613	432
55°	409	408	422	438	446	367
65°	257	253	259	264	270	255
75°	130	122	121	120	122	138
85°	31	27	23	20	20	36
90°	0	0	0	0	0	



TEST NUMBER: P229707

CATALOG NUMBER: 22RLN-LD5-35-RDP-UNV-L935-CD1-SVPD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	900.1	900.1	900.1	900.1	900.1
2.5°	893.0	893.0	894.5	899.4	898.7
5°	888.8	888.8	890.9	895.2	898.7
7.5°	883.1	883.8	886.0	892.3	896.6
10°	876.1	876.8	881.0	887.4	893.7
12.5°	871.1	871.8	873.9	881.7	888.1
15°	852.7	856.2	866.9	873.2	880.3
17.5°	838.6	842.8	857.0	862.6	871.1
20°	822.3	827.2	838.6	851.3	859.8
22.5°	805.3	811.0	822.3	837.1	846.3
25°	784.1	791.1	804.6	821.6	830.8
27.5°	762.8	769.9	783.4	806.7	813.1
30°	738.1	745.9	760.7	783.4	791.8
32.5°	712.6	719.7	735.2	758.6	768.5
35°	686.4	692.1	708.3	730.3	743.0
37.5°	656.7	662.4	680.7	702.0	711.9
40°	626.3	630.5	648.9	670.1	680.7
42.5°	593.7	598.0	614.9	636.9	648.9
45°	560.5	563.3	580.3	602.9	612.8
47.5°	525.1	527.9	545.6	564.0	573.2
50°	491.1	489.7	505.3	522.2	531.4
52.5°	449.4	450.1	463.5	479.8	490.4
55°	409.0	408.3	422.5	438.0	445.8
57.5°	371.5	368.7	380.7	391.3	400.5
60°	331.9	329.1	338.3	349.6	354.5
62.5°	293.7	290.1	299.3	305.7	310.7
65°	256.9	253.3	259.0	263.9	269.6
67.5°	222.2	218.0	222.9	225.7	230.0
70°	188.2	184.7	185.4	188.9	190.4
72.5°	159.2	152.1	152.9	152.9	155.0
75°	130.2	122.4	121.0	120.3	122.4
77.5°	101.2	94.8	92.7	92.0	92.0
80°	77.8	69.3	66.5	64.4	64.4
82.5°	51.0	48.1	43.2	40.3	38.9
85°	31.1	26.9	22.6	20.5	19.8
87.5°	12.0	9.9	8.5	8.5	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)