

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: P229636

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229636  
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-LD5-40-RDP-UNV-L935-CD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS  
Light Source: (126)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2824.0 lumens  
Efficiency: N/A  
Efficacy: 79.3 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

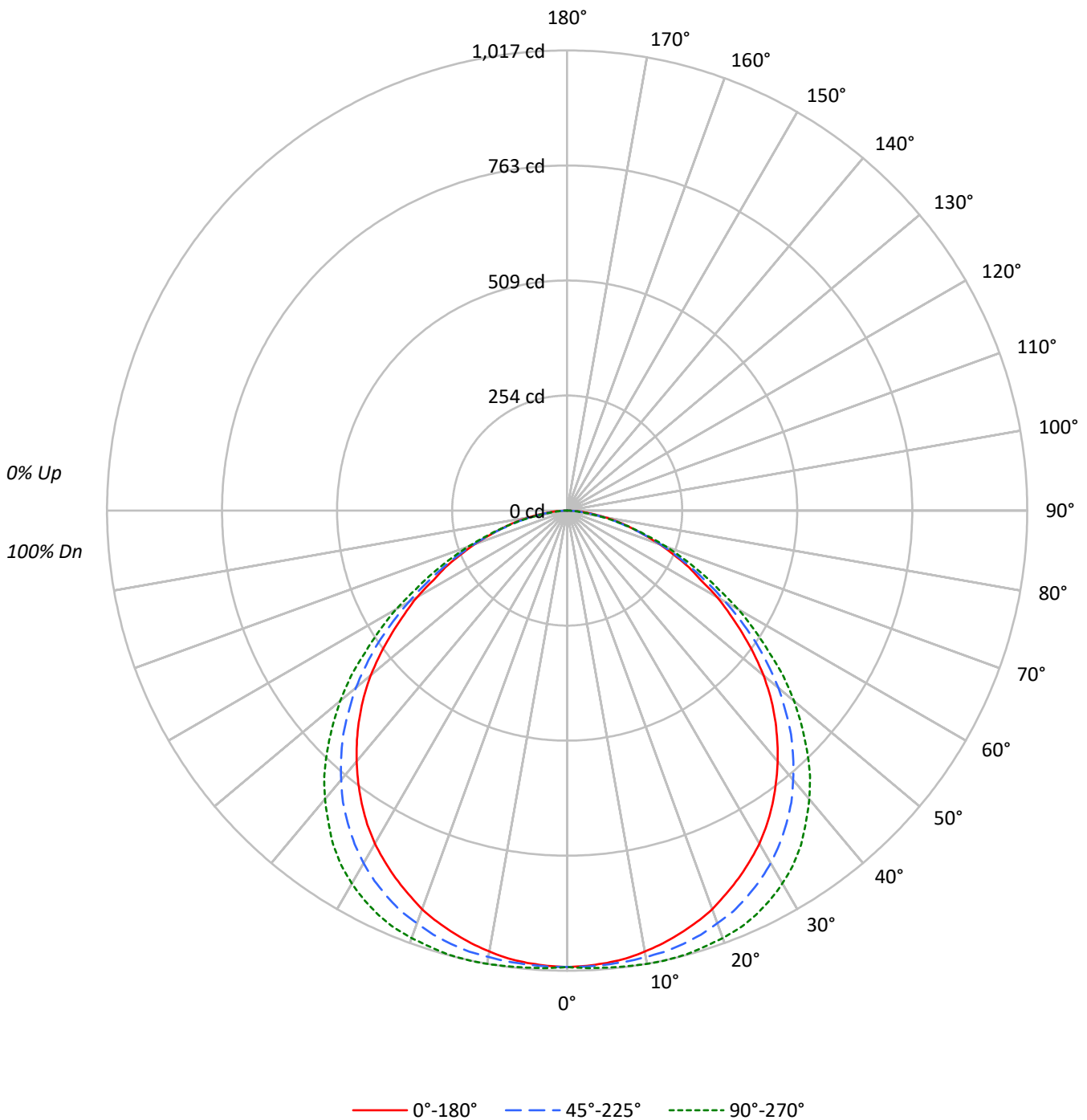
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P229636

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L935-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P229636

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L935-CD1-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	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°	3230	3230	3230
5°	3226	3237	3260
10°	3219	3258	3309
15°	3207	3287	3368
20°	3196	3308	3426
25°	3168	3327	3485
30°	3143	3328	3519
35°	3093	3302	3525
40°	3026	3250	3481
45°	2942	3169	3395
50°	2823	3038	3261
55°	2643	2845	3038
60°	2456	2589	2799
65°	2251	2330	2487
70°	2038	2070	2168
75°	1795	1752	1816
80°	1560	1433	1370
85°	1268	952	827



TEST NUMBER: P229636

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L935-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.1	3.4
10°-20°	280.1	9.9
20°-30°	433.9	15.4
30°-40°	528.1	18.7
40°-50°	537.9	19.0
50°-60°	453.6	16.1
60°-70°	306.8	10.9
70°-80°	153.3	5.4
80°-90°	34.1	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°	810.1	28.7
0°-40°	1338.2	47.4
0°-60°	2329.7	82.5
0°-90°	2824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2824.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1009	1009	1009	1009	1009	
5°	1004	1005	1007	1012	1014	95
15°	967	974	992	1009	1016	273
25°	896	910	941	972	986	413
35°	791	808	845	884	902	494
45°	650	662	700	736	750	500
55°	473	480	510	534	544	423
65°	297	292	308	321	328	293
75°	145	140	142	143	147	155
85°	34	29	26	22	22	40
90°	0	0	0	0	0	



TEST NUMBER: P229636

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1008.7	1008.7	1008.7	1008.7	1008.7
2.5°	1007.0	1007.0	1008.7	1010.5	1012.2
5°	1003.6	1005.3	1007.0	1012.2	1013.9
7.5°	998.4	1000.1	1005.3	1012.2	1015.7
10°	989.7	993.2	1001.8	1012.2	1017.4
12.5°	979.4	984.6	998.4	1010.5	1017.4
15°	967.3	974.2	991.5	1008.7	1015.7
17.5°	953.5	962.1	982.8	1001.8	1010.5
20°	937.9	948.3	970.7	994.9	1005.3
22.5°	917.2	931.0	958.7	986.3	998.4
25°	896.5	910.3	941.4	972.5	986.3
27.5°	874.0	889.6	922.4	956.9	970.7
30°	849.8	863.6	899.9	936.2	951.7
32.5°	822.2	836.0	874.0	912.0	929.3
35°	791.1	808.4	844.6	884.4	901.6
37.5°	758.3	773.8	813.6	851.6	867.1
40°	723.7	739.3	777.3	817.0	832.6
42.5°	687.5	703.0	739.3	777.3	794.6
45°	649.5	661.6	699.6	735.8	749.6
47.5°	609.7	618.4	654.6	689.2	703.0
50°	566.6	575.2	609.7	640.8	654.6
52.5°	519.9	526.8	559.6	587.3	602.8
55°	473.3	480.2	509.6	533.7	544.1
57.5°	426.6	430.1	456.0	480.2	490.6
60°	383.5	383.5	404.2	423.2	437.0
62.5°	333.4	338.6	354.1	373.1	378.3
65°	297.1	291.9	307.5	321.3	328.2
67.5°	255.6	252.2	262.5	274.6	278.1
70°	217.6	212.5	221.1	228.0	231.5
72.5°	177.9	176.2	179.6	184.8	186.5
75°	145.1	139.9	141.6	143.4	146.8
77.5°	115.7	107.1	108.8	107.1	108.8
80°	84.6	77.7	77.7	76.0	74.3
82.5°	57.0	53.5	50.1	46.6	44.9
85°	34.5	29.4	25.9	22.5	22.5
87.5°	13.8	10.4	8.6	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)