

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: P229642

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229642  
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-L940-CD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS  
Light Source: (126)4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2897.0 lumens  
Efficiency: N/A  
Efficacy: 81.4 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

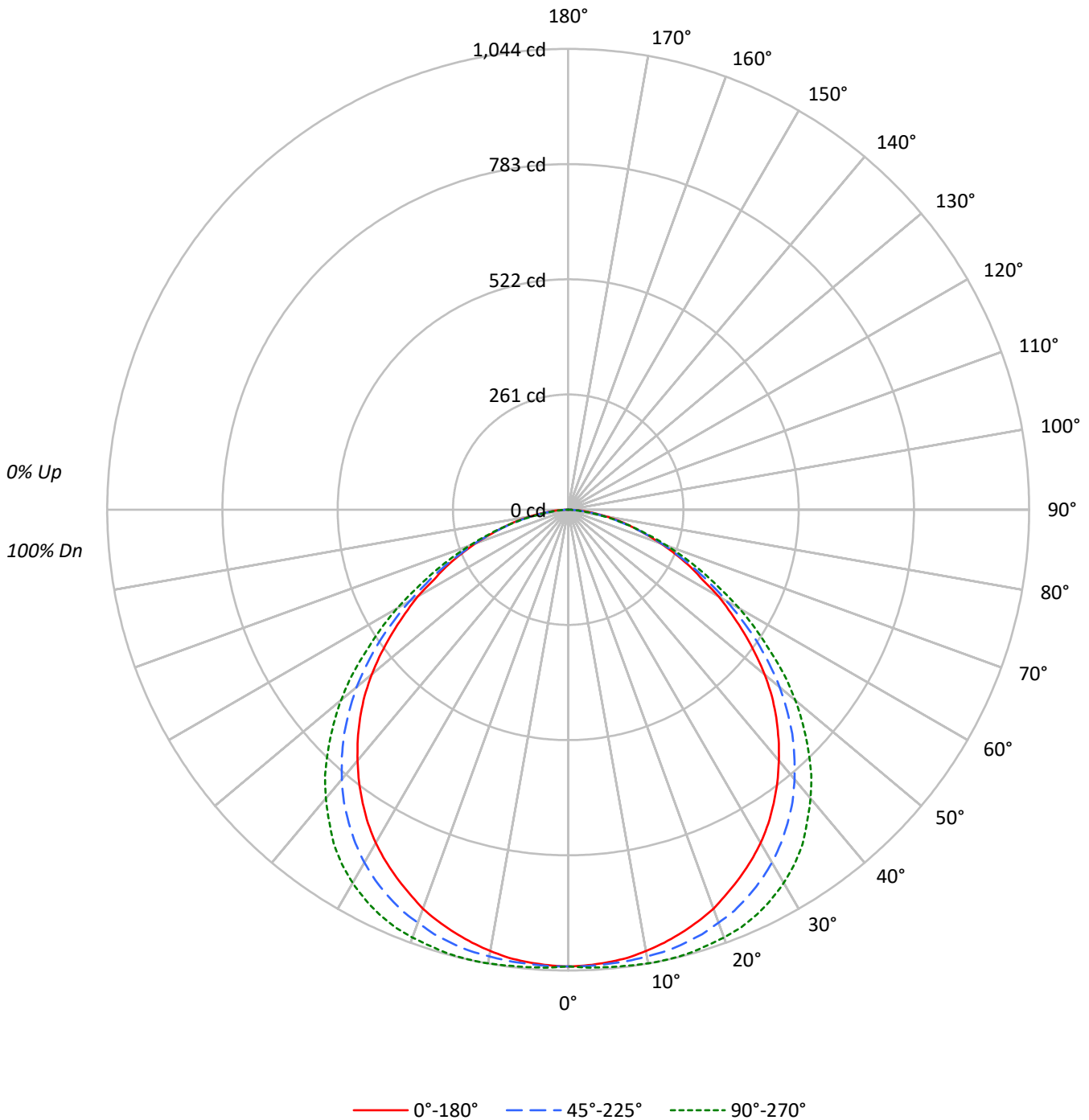
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3314	3314	3314
5°	3310	3321	3344
10°	3302	3342	3394
15°	3290	3372	3455
20°	3279	3394	3515
25°	3250	3412	3575
30°	3224	3414	3610
35°	3173	3388	3616
40°	3104	3334	3571
45°	3018	3250	3483
50°	2896	3116	3346
55°	2711	2919	3117
60°	2520	2656	2871
65°	2310	2390	2552
70°	2091	2124	2223
75°	1841	1798	1864
80°	1601	1470	1405
85°	1301	977	845



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	3.4
10°-20°	287.3	9.9
20°-30°	445.2	15.4
30°-40°	541.8	18.7
40°-50°	551.8	19.0
50°-60°	465.3	16.1
60°-70°	314.8	10.9
70°-80°	157.3	5.4
80°-90°	35.0	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°	831.0	28.7
0°-40°	1372.8	47.4
0°-60°	2389.9	82.5
0°-90°	2897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2897.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1030	1031	1033	1038	1040	98
15°	992	999	1017	1035	1042	280
25°	920	934	966	998	1012	424
35°	812	829	866	907	925	507
45°	666	679	718	755	769	513
55°	486	493	523	548	558	434
65°	305	300	315	330	337	301
75°	149	144	145	147	151	160
85°	35	30	27	23	23	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1034.8	1034.8	1034.8	1034.8	1034.8
2.5°	1033.0	1033.0	1034.8	1036.6	1038.4
5°	1029.5	1031.3	1033.0	1038.4	1040.1
7.5°	1024.2	1026.0	1031.3	1038.4	1041.9
10°	1015.3	1018.9	1027.7	1038.4	1043.7
12.5°	1004.7	1010.0	1024.2	1036.6	1043.7
15°	992.3	999.4	1017.1	1034.8	1041.9
17.5°	978.1	987.0	1008.2	1027.7	1036.6
20°	962.2	972.8	995.8	1020.6	1031.3
22.5°	940.9	955.1	983.4	1011.8	1024.2
25°	919.6	933.8	965.7	997.6	1011.8
27.5°	896.6	912.6	946.2	981.7	995.8
30°	871.8	886.0	923.2	960.4	976.3
32.5°	843.4	857.6	896.6	935.6	953.3
35°	811.6	829.3	866.5	907.2	925.0
37.5°	777.9	793.8	834.6	873.6	889.5
40°	742.4	758.4	797.4	838.1	854.1
42.5°	705.2	721.2	758.4	797.4	815.1
45°	666.3	678.7	717.6	754.9	769.0
47.5°	625.5	634.4	671.6	707.0	721.2
50°	581.2	590.1	625.5	657.4	671.6
52.5°	533.4	540.4	574.1	602.5	618.4
55°	485.5	492.6	522.7	547.5	558.2
57.5°	437.7	441.2	467.8	492.6	503.2
60°	393.4	393.4	414.6	434.1	448.3
62.5°	342.0	347.3	363.2	382.7	388.1
65°	304.8	299.5	315.4	329.6	336.7
67.5°	262.2	258.7	269.3	281.7	285.3
70°	223.3	217.9	226.8	233.9	237.4
72.5°	182.5	180.7	184.3	189.6	191.4
75°	148.8	143.5	145.3	147.1	150.6
77.5°	118.7	109.9	111.6	109.9	111.6
80°	86.8	79.7	79.7	78.0	76.2
82.5°	58.5	54.9	51.4	47.8	46.1
85°	35.4	30.1	26.6	23.0	23.0
87.5°	14.2	10.6	8.9	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)