

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: P229568

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-2)  
Test Lab: INNOVATION CENTER-G3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-26-RDP-UNV-L940-CD1-SVPD1-U  
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (112)4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1933.0 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.31 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

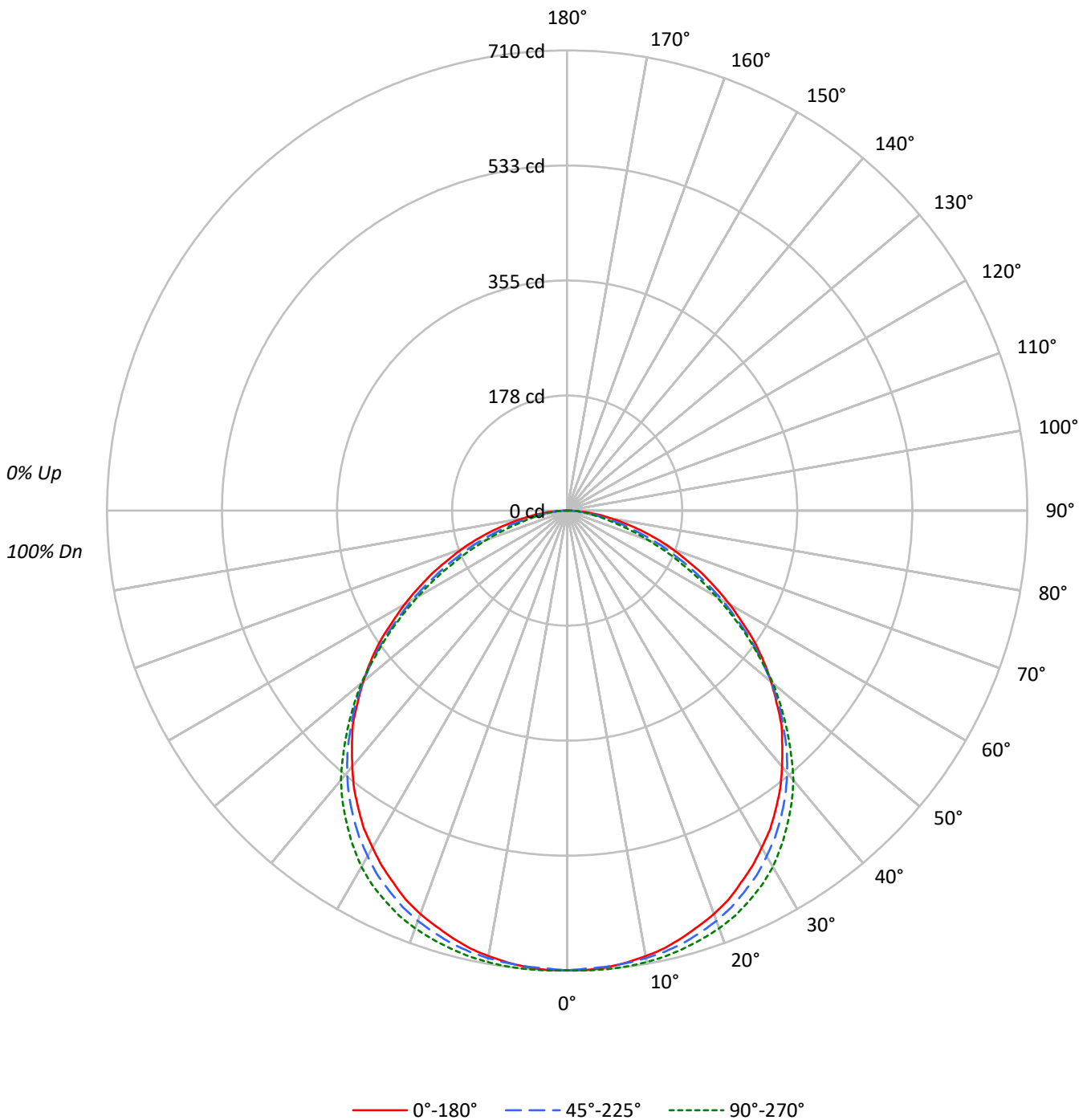
Input Watts (W): 24.72  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	2390	2390	2390
5°	2392	2389	2403
10°	2389	2399	2420
15°	2382	2411	2439
20°	2375	2415	2460
25°	2357	2410	2471
30°	2336	2395	2470
35°	2310	2369	2436
40°	2268	2322	2389
45°	2229	2249	2287
50°	2153	2153	2174
55°	2071	2024	1994
60°	1950	1861	1793
65°	1828	1674	1560
70°	1697	1476	1305
75°	1526	1247	1035
80°	1325	968	869
85°	1144	827	827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	3.5
10°-20°	195.2	10.1
20°-30°	299.3	15.5
30°-40°	360.5	18.6
40°-50°	364.2	18.8
50°-60°	307.4	15.9
60°-70°	208.9	10.8
70°-80°	103.6	5.4
80°-90°	26.5	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°	561.9	29.1
0°-40°	922.4	47.7
0°-60°	1594.0	82.5
0°-90°	1933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1933.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	707	707	706	709	710	67
15°	683	686	691	697	699	193
25°	634	639	648	661	664	292
35°	562	566	576	589	592	351
45°	468	465	472	480	480	359
55°	353	346	344	341	339	314
65°	229	218	210	200	196	227
75°	117	108	96	84	80	125
85°	30	22	21	21	21	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	709.3	709.3	709.3	709.3	709.3
2.5°	709.3	709.3	707.3	710.3	710.3
5°	707.3	707.3	706.3	709.3	710.3
7.5°	703.2	704.2	704.2	708.3	709.3
10°	698.1	699.1	701.2	706.3	707.3
12.5°	692.0	694.0	697.1	702.2	704.2
15°	682.8	685.9	691.0	697.1	699.1
17.5°	672.6	676.7	682.8	691.0	693.0
20°	662.4	665.5	673.6	682.8	685.9
22.5°	650.2	654.3	662.4	672.6	676.7
25°	633.9	639.0	648.2	661.4	664.5
27.5°	618.6	623.7	633.9	647.1	651.2
30°	600.3	606.4	615.6	629.8	634.9
32.5°	582.9	586.0	597.2	610.5	614.5
35°	561.5	565.6	575.8	589.1	592.1
37.5°	540.1	543.2	553.4	565.6	568.7
40°	515.7	518.7	527.9	540.1	543.2
42.5°	491.2	493.3	501.4	511.6	511.6
45°	467.8	464.7	471.9	480.0	480.0
47.5°	438.2	438.2	443.3	447.4	447.4
50°	410.7	408.7	410.7	412.7	414.8
52.5°	382.2	378.1	377.1	377.1	376.1
55°	352.6	345.5	344.5	341.4	339.4
57.5°	320.0	314.9	308.8	304.7	302.7
60°	289.4	280.3	276.2	269.1	266.0
62.5°	258.9	250.7	241.5	234.4	231.3
65°	229.3	218.1	209.9	199.7	195.7
67.5°	198.7	188.5	178.3	169.2	165.1
70°	172.2	160.0	149.8	136.6	132.5
72.5°	144.7	133.5	121.3	109.0	104.0
75°	117.2	108.0	95.8	83.6	79.5
77.5°	91.7	83.6	71.3	61.1	60.1
80°	68.3	61.1	49.9	45.9	44.8
82.5°	48.9	40.8	33.6	32.6	32.6
85°	29.6	22.4	21.4	21.4	21.4
87.5°	11.2	10.2	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)