

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: P229538

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229538  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36064)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-26-UNV-L940-CD1-SVPD1-U  
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR  
Light Source: (112)4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2278.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

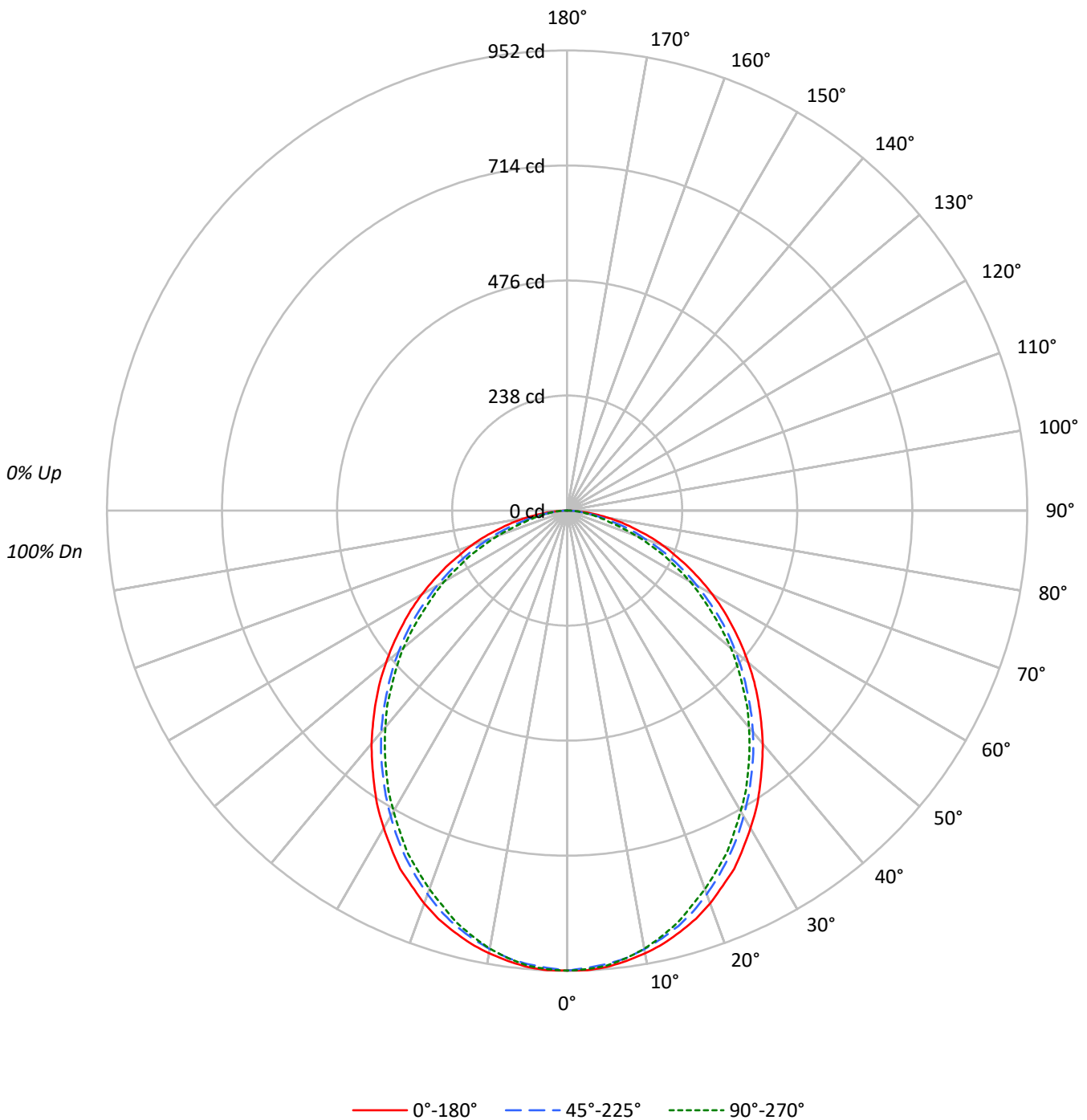
Input Watts (W): 24.72  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

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

	0°	45°	90°
0°	3207	3207	3207
5°	3206	3186	3196
10°	3182	3152	3149
15°	3148	3103	3079
20°	3102	3028	2989
25°	3040	2941	2905
30°	2952	2840	2794
35°	2861	2735	2687
40°	2769	2630	2574
45°	2667	2507	2446
50°	2562	2386	2319
55°	2454	2251	2135
60°	2337	2091	1979
65°	2207	1917	1776
70°	2077	1698	1504
75°	1872	1449	1168
80°	1663	1147	1032
85°	1372	912	951



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.5	3.9
10°-20°	251.0	11.0
20°-30°	365.9	16.1
30°-40°	419.4	18.4
40°-50°	410.1	18.0
50°-60°	345.9	15.2
60°-70°	241.8	10.6
70°-80°	123.3	5.4
80°-90°	31.1	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°	706.4	31.0
0°-40°	1125.8	49.4
0°-60°	1881.8	82.6
0°-90°	2278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2278.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	948	946	942	945	945	90
15°	902	900	890	887	883	254
25°	818	808	791	783	781	376
35°	696	686	665	658	653	435
45°	560	545	526	519	513	432
55°	418	402	383	372	364	374
65°	277	260	240	227	223	274
75°	144	132	111	98	90	155
85°	36	27	24	25	25	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	951.7	951.7	951.7	951.7	951.7
2.5°	951.7	949.7	946.8	950.7	949.7
5°	947.8	945.8	941.9	944.8	944.8
7.5°	939.9	937.9	934.0	935.9	934.0
10°	930.0	928.1	921.2	922.1	920.2
12.5°	918.2	914.3	906.4	905.4	902.4
15°	902.4	899.5	889.6	886.7	882.7
17.5°	885.7	879.8	868.9	863.0	857.1
20°	865.0	857.1	844.3	837.4	833.5
22.5°	840.4	834.5	818.7	810.8	806.9
25°	817.7	807.9	791.1	783.2	781.3
27.5°	788.2	780.3	761.6	754.7	748.8
30°	758.6	749.7	730.0	723.1	718.2
32.5°	729.0	719.2	698.5	690.6	687.7
35°	695.6	685.7	665.0	658.1	653.2
37.5°	662.1	650.2	632.5	624.6	619.7
40°	629.5	615.8	598.0	589.2	585.2
42.5°	594.1	579.3	562.5	553.7	551.7
45°	559.6	544.8	526.1	519.2	513.3
47.5°	525.1	508.4	491.6	481.8	477.8
50°	488.7	472.9	455.2	445.3	442.4
52.5°	453.2	437.4	420.7	409.8	402.9
55°	417.7	402.0	383.2	372.4	363.5
57.5°	383.2	364.5	345.8	333.0	328.1
60°	346.8	330.0	310.3	297.5	293.6
62.5°	311.3	296.5	275.9	261.1	254.2
65°	276.8	260.1	240.4	226.6	222.7
67.5°	241.4	226.6	206.9	191.1	184.2
70°	210.8	192.1	172.4	158.6	152.7
72.5°	178.3	161.6	142.9	127.1	118.2
75°	143.8	132.0	111.3	97.5	89.7
77.5°	116.3	102.5	83.7	72.9	70.9
80°	85.7	74.9	59.1	54.2	53.2
82.5°	60.1	49.3	40.4	38.4	37.4
85°	35.5	26.6	23.6	24.6	24.6
87.5°	14.8	10.8	10.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)