

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: P229558

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229558  
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-L930-CD1-SVPD1-U  
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (112)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1816.0 lumens  
Efficiency: N/A  
Efficacy: 73.5 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

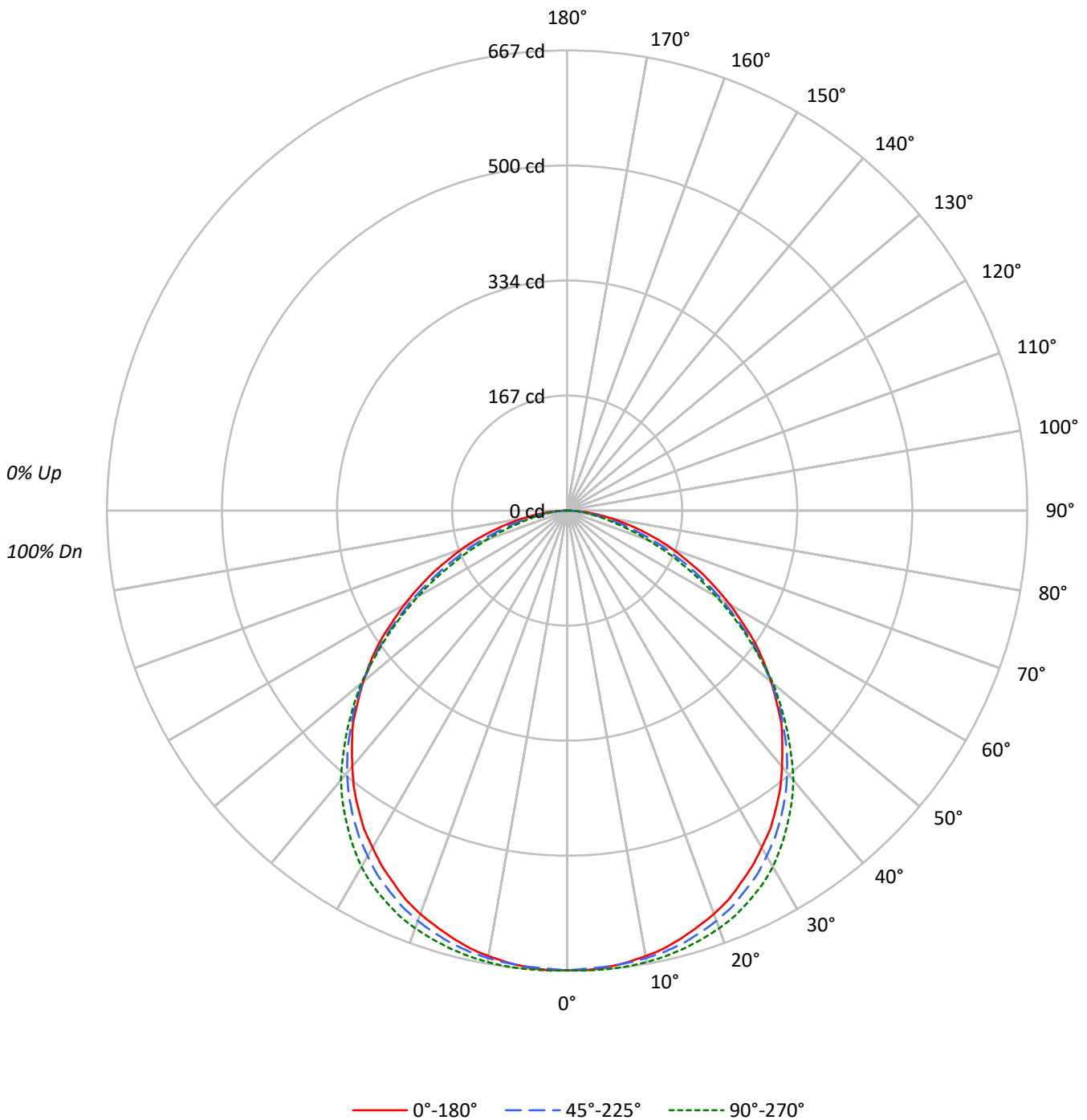
Input Watts (W): 24.72  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

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

	0°	45°	90°
0°	2245	2245	2245
5°	2248	2244	2257
10°	2244	2254	2274
15°	2238	2264	2291
20°	2231	2269	2311
25°	2214	2264	2321
30°	2194	2250	2321
35°	2170	2225	2288
40°	2131	2182	2245
45°	2094	2112	2149
50°	2022	2022	2043
55°	1946	1901	1873
60°	1832	1749	1684
65°	1717	1572	1465
70°	1594	1386	1227
75°	1433	1172	973
80°	1244	910	817
85°	1075	777	777



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.3	3.5
10°-20°	183.4	10.1
20°-30°	281.2	15.5
30°-40°	338.7	18.6
40°-50°	342.2	18.8
50°-60°	288.8	15.9
60°-70°	196.3	10.8
70°-80°	97.3	5.4
80°-90°	24.9	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°	527.9	29.1
0°-40°	866.6	47.7
0°-60°	1497.6	82.5
0°-90°	1816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	664	664	664	666	667	63
15°	642	644	649	655	657	181
25°	596	600	609	621	624	275
35°	528	531	541	553	556	330
45°	440	437	443	451	451	337
55°	331	325	324	321	319	295
65°	215	205	197	188	184	213
75°	110	102	90	78	75	117
85°	28	21	20	20	20	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	666.4	666.4	666.4	666.4	666.4
2.5°	666.4	666.4	664.5	667.3	667.3
5°	664.5	664.5	663.5	666.4	667.3
7.5°	660.6	661.6	661.6	665.4	666.4
10°	655.8	656.8	658.7	663.5	664.5
12.5°	650.1	652.0	654.9	659.7	661.6
15°	641.5	644.4	649.1	654.9	656.8
17.5°	631.9	635.7	641.5	649.1	651.1
20°	622.3	625.2	632.9	641.5	644.4
22.5°	610.8	614.7	622.3	631.9	635.7
25°	595.5	600.3	608.9	621.4	624.3
27.5°	581.2	586.0	595.5	608.0	611.8
30°	563.9	569.7	578.3	591.7	596.5
32.5°	547.7	550.5	561.1	573.5	577.3
35°	527.6	531.4	541.0	553.4	556.3
37.5°	507.4	510.3	519.9	531.4	534.3
40°	484.5	487.3	496.0	507.4	510.3
42.5°	461.5	463.4	471.1	480.6	480.6
45°	439.5	436.6	443.3	451.0	451.0
47.5°	411.7	411.7	416.5	420.3	420.3
50°	385.8	383.9	385.8	387.8	389.7
52.5°	359.0	355.2	354.3	354.3	353.3
55°	331.3	324.6	323.6	320.7	318.8
57.5°	300.6	295.9	290.1	286.3	284.4
60°	271.9	263.3	259.5	252.8	249.9
62.5°	243.2	235.5	226.9	220.2	217.3
65°	215.4	204.9	197.2	187.7	183.8
67.5°	186.7	177.1	167.6	158.9	155.1
70°	161.8	150.3	140.7	128.3	124.5
72.5°	136.0	125.4	113.9	102.4	97.7
75°	110.1	101.5	90.0	78.5	74.7
77.5°	86.2	78.5	67.0	57.4	56.5
80°	64.1	57.4	46.9	43.1	42.1
82.5°	46.0	38.3	31.6	30.6	30.6
85°	27.8	21.1	20.1	20.1	20.1
87.5°	10.5	9.6	10.5	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)