

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: P229468

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36058)  
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-L930-CD1-U  
Description: METALUX 1X4 RLN LED TROFFER  
Light Source: (112)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

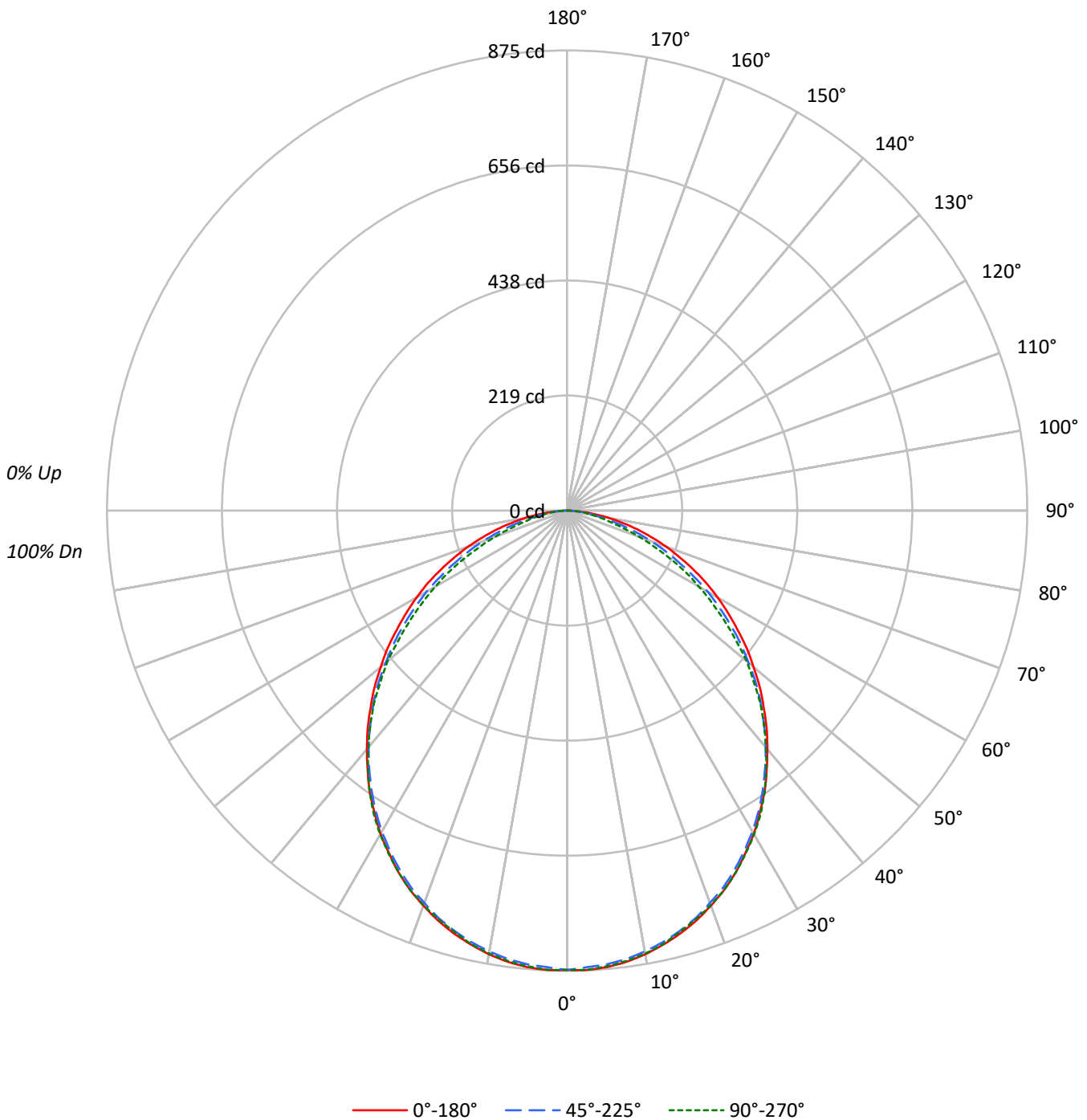
Lumens per Lamp: N/A  
Luminaire Lumens: 2197.0 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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	77	84	79	76	81	77	74	72
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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

	0°	45°	90°
0°	2943	2943	2943
5°	2947	2929	2942
10°	2931	2913	2926
15°	2904	2887	2893
20°	2867	2848	2863
25°	2822	2802	2822
30°	2762	2741	2766
35°	2691	2669	2691
40°	2605	2584	2586
45°	2518	2485	2477
50°	2425	2363	2337
55°	2325	2229	2147
60°	2227	2081	1954
65°	2105	1881	1721
70°	1963	1670	1446
75°	1799	1398	1117
80°	1550	1048	964
85°	1253	878	897



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	3.8
10°-20°	234.1	10.7
20°-30°	348.5	15.9
30°-40°	407.3	18.5
40°-50°	402.6	18.3
50°-60°	339.9	15.5
60°-70°	235.4	10.7
70°-80°	117.5	5.3
80°-90°	29.2	1.3
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°	665.1	30.3
0°-40°	1072.4	48.8
0°-60°	1814.9	82.6
0°-90°	2197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2197.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	871	870	866	870	870	83
15°	832	831	828	831	829	235
25°	759	757	754	758	759	349
35°	654	651	649	654	654	409
45°	528	523	522	520	520	408
55°	396	389	380	371	366	355
65°	264	252	236	224	216	262
75°	138	126	107	93	86	146
85°	32	25	23	23	23	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	873.5	873.5	873.5	873.5	873.5
2.5°	874.6	872.9	869.2	873.5	874.0
5°	871.3	869.7	865.9	870.2	869.7
7.5°	865.4	863.2	860.0	863.8	863.8
10°	856.7	855.1	851.3	855.7	855.1
12.5°	845.4	844.3	840.5	844.9	844.3
15°	832.4	831.4	827.6	831.4	829.2
17.5°	817.3	816.8	812.5	815.2	814.6
20°	799.5	798.4	794.1	799.5	798.4
22.5°	780.6	778.5	775.8	780.1	780.6
25°	759.0	756.9	753.6	758.5	759.0
27.5°	734.2	732.6	729.3	736.4	735.3
30°	709.9	708.3	704.5	710.4	711.0
32.5°	681.8	680.2	677.5	683.4	684.5
35°	654.3	651.1	648.9	653.8	654.3
37.5°	623.5	620.3	618.1	623.0	621.9
40°	592.2	588.4	587.4	591.1	587.9
42.5°	561.4	556.6	554.4	556.6	554.4
45°	528.5	522.6	521.5	520.4	519.9
47.5°	496.7	490.2	487.5	483.7	481.0
50°	462.6	455.6	450.8	447.0	445.9
52.5°	430.8	422.7	415.7	412.4	403.8
55°	395.7	388.7	379.5	371.4	365.5
57.5°	362.8	353.6	342.8	334.2	326.6
60°	330.4	318.5	308.8	295.3	289.9
62.5°	298.5	285.0	271.5	257.0	254.3
65°	264.0	251.6	235.9	223.5	215.9
67.5°	231.1	218.1	203.0	185.7	178.7
70°	199.2	185.2	169.5	152.8	146.8
72.5°	168.4	154.4	138.2	120.4	113.4
75°	138.2	125.8	107.4	92.9	85.8
77.5°	107.4	97.2	79.4	67.5	66.4
80°	79.9	70.7	54.0	51.3	49.7
82.5°	55.1	46.4	38.3	36.7	35.6
85°	32.4	24.8	22.7	22.7	23.2
87.5°	12.4	10.8	10.8	10.8	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)