

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: P229529

Luminaire Tested: **14RLN-LD5-31-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229529
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-LD5-31-UNV-L930-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR
Light Source: (112)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2555.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

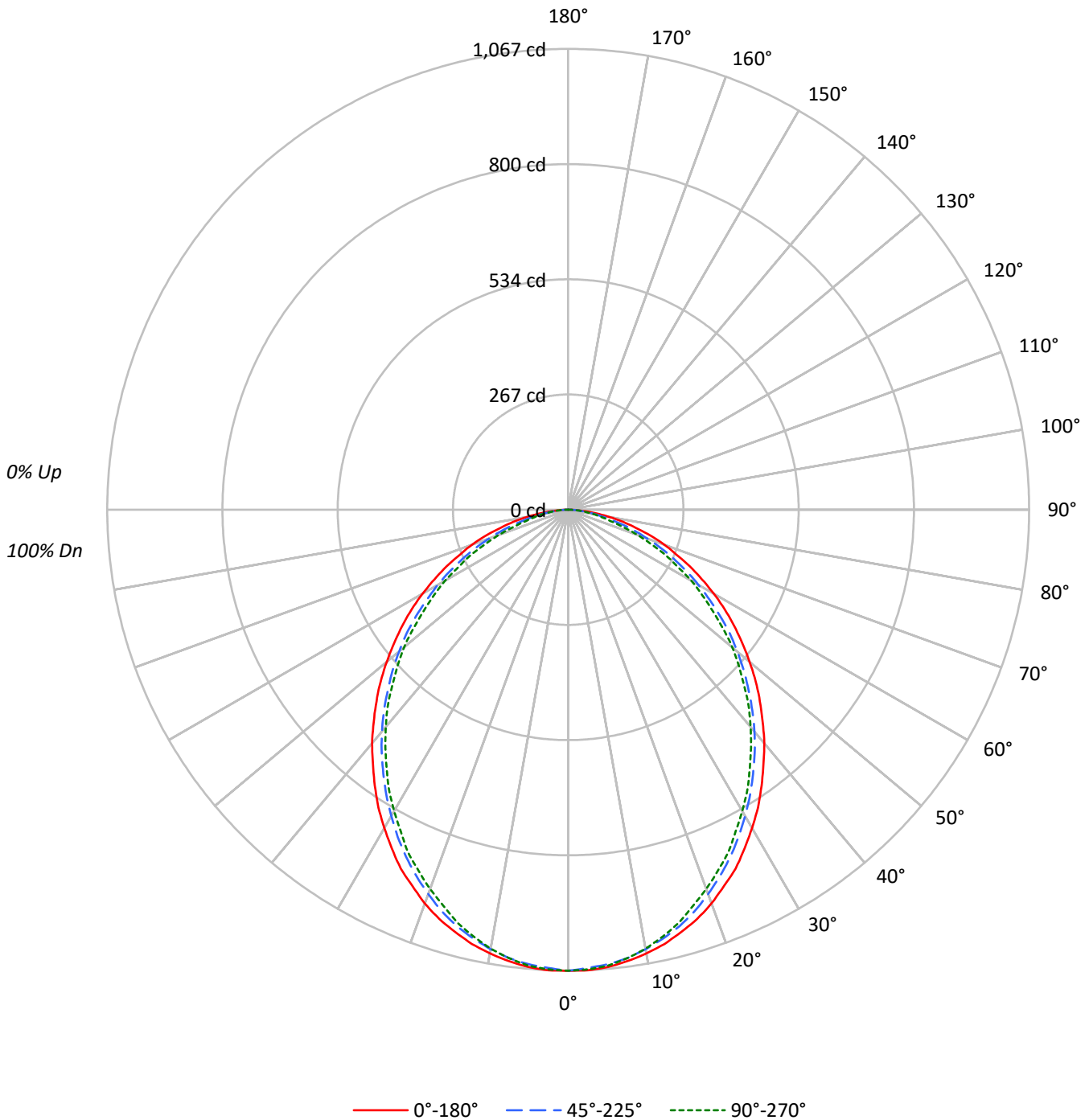
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3597	3597	3597
5°	3596	3573	3584
10°	3569	3535	3531
15°	3531	3481	3454
20°	3479	3396	3352
25°	3410	3299	3258
30°	3310	3186	3134
35°	3209	3068	3014
40°	3106	2950	2887
45°	2991	2812	2743
50°	2873	2676	2601
55°	2752	2525	2395
60°	2622	2346	2219
65°	2476	2150	1991
70°	2330	1905	1688
75°	2100	1626	1310
80°	1865	1287	1158
85°	1539	1025	1067



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	3.9
10°-20°	281.5	11.0
20°-30°	410.3	16.1
30°-40°	470.4	18.4
40°-50°	459.9	18.0
50°-60°	388.0	15.2
60°-70°	271.2	10.6
70°-80°	138.3	5.4
80°-90°	34.9	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°	792.3	31.0
0°-40°	1262.7	49.4
0°-60°	2110.6	82.6
0°-90°	2555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1063	1061	1056	1060	1060	101
15°	1012	1009	998	994	990	285
25°	917	906	887	878	876	421
35°	780	769	746	738	733	488
45°	628	611	590	582	576	484
55°	468	451	430	418	408	419
65°	310	292	270	254	250	308
75°	161	148	125	109	101	173
85°	40	30	26	28	28	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1067.4	1067.4	1067.4	1067.4	1067.4
2.5°	1067.4	1065.2	1061.9	1066.3	1065.2
5°	1063.0	1060.8	1056.4	1059.7	1059.7
7.5°	1054.2	1052.0	1047.5	1049.7	1047.5
10°	1043.1	1040.9	1033.2	1034.3	1032.1
12.5°	1029.9	1025.4	1016.6	1015.5	1012.2
15°	1012.2	1008.9	997.8	994.5	990.1
17.5°	993.4	986.8	974.6	968.0	961.3
20°	970.2	961.3	947.0	939.2	934.8
22.5°	942.6	935.9	918.3	909.4	905.0
25°	917.1	906.1	887.3	878.5	876.3
27.5°	884.0	875.2	854.2	846.4	839.8
30°	850.8	840.9	818.8	811.1	805.5
32.5°	817.7	806.6	783.4	774.6	771.3
35°	780.1	769.1	745.9	738.1	732.6
37.5°	742.6	729.3	709.4	700.6	695.0
40°	706.1	690.6	670.7	660.8	656.4
42.5°	666.3	649.7	631.0	621.0	618.8
45°	627.6	611.1	590.1	582.3	575.7
47.5°	589.0	570.2	551.4	540.3	535.9
50°	548.1	530.4	510.5	499.5	496.1
52.5°	508.3	490.6	471.8	459.7	451.9
55°	468.5	450.8	429.8	417.7	407.7
57.5°	429.8	408.8	387.9	373.5	368.0
60°	389.0	370.2	348.1	333.7	329.3
62.5°	349.2	332.6	309.4	292.8	285.1
65°	310.5	291.7	269.6	254.1	249.7
67.5°	270.7	254.1	232.0	214.4	206.6
70°	236.5	215.5	193.4	177.9	171.3
72.5°	200.0	181.2	160.2	142.5	132.6
75°	161.3	148.1	124.9	109.4	100.6
77.5°	130.4	114.9	93.9	81.8	79.6
80°	96.1	84.0	66.3	60.8	59.7
82.5°	67.4	55.2	45.3	43.1	42.0
85°	39.8	29.8	26.5	27.6	27.6
87.5°	16.6	12.2	12.2	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)