

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: P229545

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229545
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-LD5-35-RDP-UNV-L830-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (112)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2844.0 lumens
Efficiency: N/A
Efficacy: 79.9 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

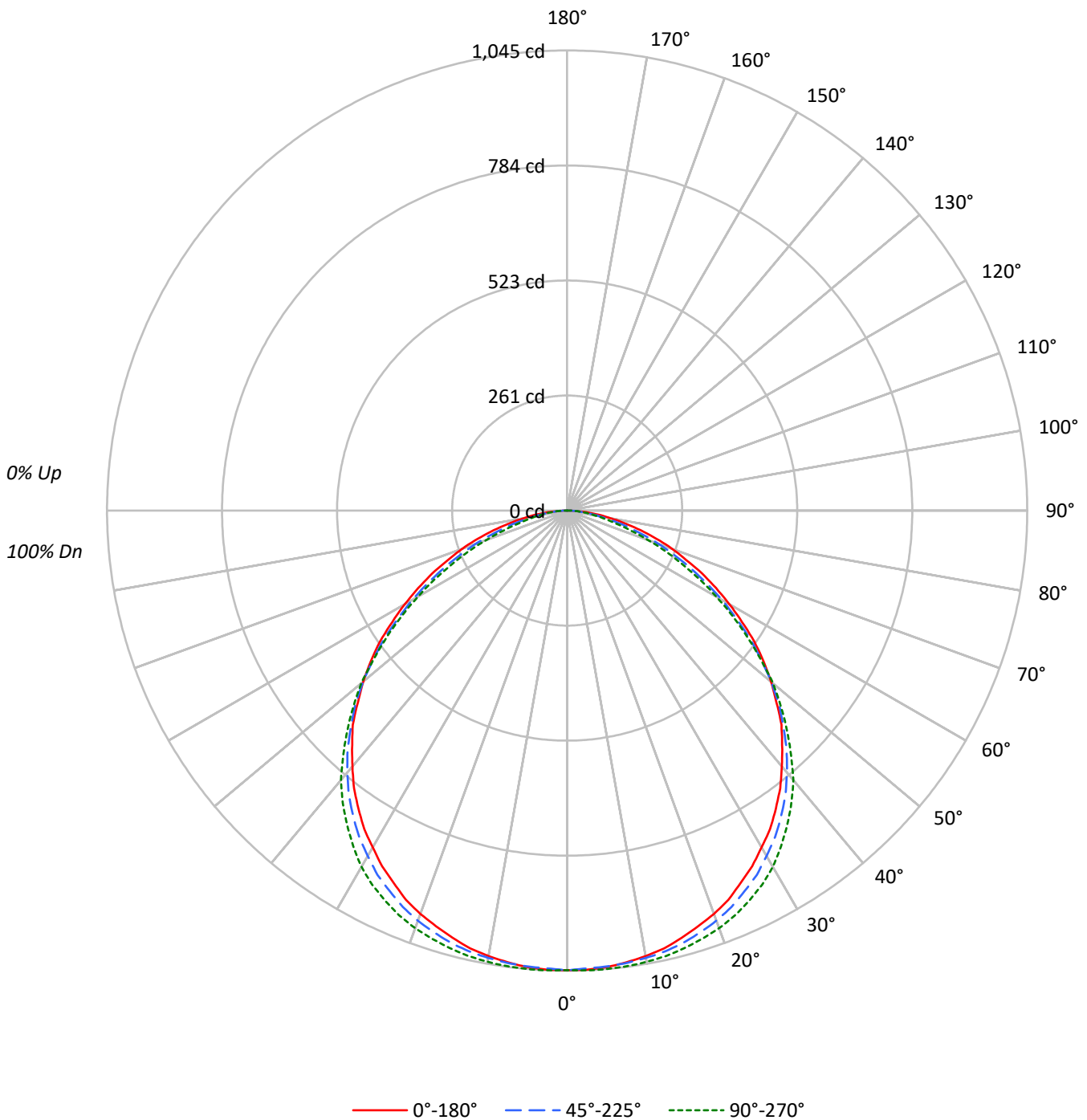
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3517	3517	3517
5°	3520	3515	3535
10°	3514	3530	3560
15°	3505	3546	3588
20°	3495	3554	3618
25°	3467	3545	3635
30°	3436	3524	3634
35°	3399	3485	3584
40°	3337	3416	3515
45°	3279	3308	3365
50°	3168	3168	3199
55°	3048	2977	2933
60°	2870	2738	2638
65°	2690	2463	2295
70°	2497	2171	1920
75°	2244	1834	1523
80°	1950	1426	1281
85°	1682	1218	1218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.5
10°-20°	287.2	10.1
20°-30°	440.4	15.5
30°-40°	530.4	18.6
40°-50°	535.9	18.8
50°-60°	452.2	15.9
60°-70°	307.4	10.8
70°-80°	152.4	5.4
80°-90°	38.9	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°	826.7	29.1
0°-40°	1357.1	47.7
0°-60°	2345.3	82.5
0°-90°	2844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1041	1041	1039	1044	1045	99
15°	1005	1009	1017	1026	1029	284
25°	933	940	954	973	978	430
35°	826	832	847	867	871	517
45°	688	684	694	706	706	528
55°	519	508	507	502	499	462
65°	337	321	309	294	288	334
75°	172	159	141	123	117	184
85°	44	33	32	32	32	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1043.6	1043.6	1043.6	1043.6	1043.6
2.5°	1043.6	1043.6	1040.6	1045.1	1045.1
5°	1040.6	1040.6	1039.1	1043.6	1045.1
7.5°	1034.6	1036.1	1036.1	1042.1	1043.6
10°	1027.1	1028.6	1031.6	1039.1	1040.6
12.5°	1018.1	1021.1	1025.6	1033.1	1036.1
15°	1004.6	1009.1	1016.6	1025.6	1028.6
17.5°	989.6	995.6	1004.6	1016.6	1019.6
20°	974.6	979.1	991.1	1004.6	1009.1
22.5°	956.6	962.6	974.6	989.6	995.6
25°	932.6	940.1	953.6	973.1	977.6
27.5°	910.2	917.7	932.6	952.1	958.1
30°	883.2	892.2	905.7	926.6	934.1
32.5°	857.7	862.2	878.7	898.2	904.2
35°	826.2	832.2	847.2	866.7	871.2
37.5°	794.7	799.2	814.2	832.2	836.7
40°	758.7	763.2	776.7	794.7	799.2
42.5°	722.7	725.7	737.7	752.7	752.7
45°	688.2	683.7	694.2	706.2	706.2
47.5°	644.8	644.8	652.3	658.3	658.3
50°	604.3	601.3	604.3	607.3	610.3
52.5°	562.3	556.3	554.8	554.8	553.3
55°	518.8	508.3	506.8	502.3	499.3
57.5°	470.8	463.3	454.3	448.3	445.3
60°	425.8	412.3	406.3	395.9	391.4
62.5°	380.9	368.9	355.4	344.9	340.4
65°	337.4	320.9	308.9	293.9	287.9
67.5°	292.4	277.4	262.4	248.9	242.9
70°	253.4	235.4	220.4	200.9	194.9
72.5°	212.9	196.4	178.4	160.4	152.9
75°	172.4	158.9	140.9	123.0	117.0
77.5°	134.9	123.0	105.0	90.0	88.5
80°	100.5	90.0	73.5	67.5	66.0
82.5°	72.0	60.0	49.5	48.0	48.0
85°	43.5	33.0	31.5	31.5	31.5
87.5°	16.5	15.0	16.5	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)