

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: P229565

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229565
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-L935-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (112)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2551.0 lumens
Efficiency: N/A
Efficacy: 71.7 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

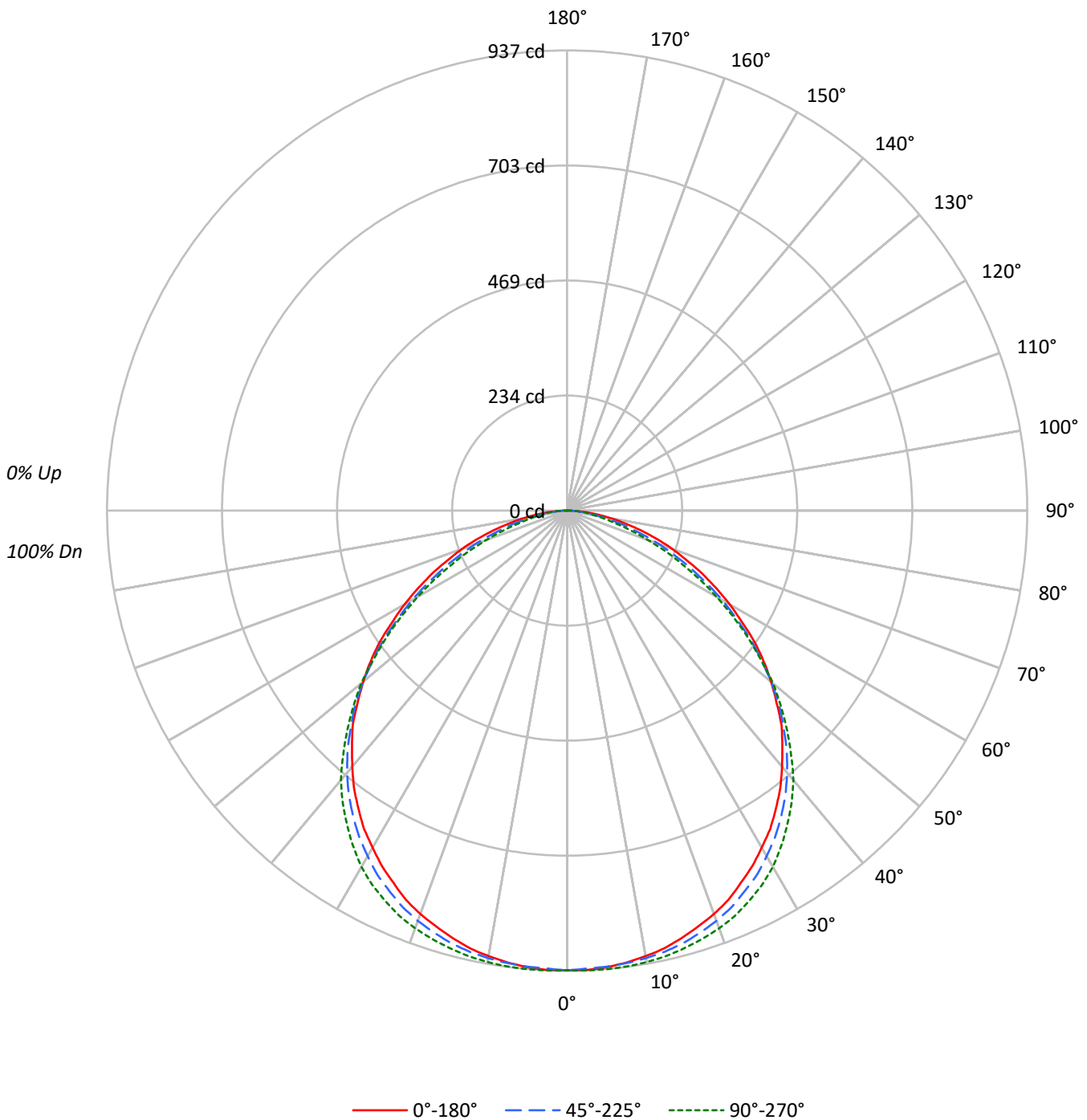
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3154	3154	3154
5°	3157	3153	3171
10°	3152	3166	3194
15°	3143	3181	3218
20°	3135	3188	3246
25°	3110	3180	3260
30°	3082	3161	3260
35°	3049	3126	3214
40°	2993	3065	3153
45°	2942	2967	3019
50°	2841	2841	2870
55°	2734	2671	2631
60°	2574	2456	2365
65°	2413	2209	2059
70°	2239	1948	1722
75°	2014	1646	1366
80°	1748	1279	1149
85°	1508	1090	1090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	3.5
10°-20°	257.6	10.1
20°-30°	395.0	15.5
30°-40°	475.7	18.6
40°-50°	480.7	18.8
50°-60°	405.7	15.9
60°-70°	275.8	10.8
70°-80°	136.7	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°	741.6	29.1
0°-40°	1217.3	47.7
0°-60°	2103.7	82.5
0°-90°	2551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	933	933	932	936	937	89
15°	901	905	912	920	923	254
25°	837	843	855	873	877	386
35°	741	746	760	777	781	463
45°	617	613	623	634	634	474
55°	465	456	455	451	448	414
65°	303	288	277	264	258	300
75°	155	143	126	110	105	165
85°	39	30	28	28	28	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.1	936.1	936.1	936.1	936.1
2.5°	936.1	936.1	933.4	937.4	937.4
5°	933.4	933.4	932.1	936.1	937.4
7.5°	928.0	929.4	929.4	934.7	936.1
10°	921.3	922.6	925.3	932.1	933.4
12.5°	913.2	915.9	919.9	926.7	929.4
15°	901.1	905.2	911.9	919.9	922.6
17.5°	887.7	893.1	901.1	911.9	914.6
20°	874.2	878.3	889.0	901.1	905.2
22.5°	858.1	863.5	874.2	887.7	893.1
25°	836.6	843.3	855.4	872.9	876.9
27.5°	816.4	823.1	836.6	854.0	859.4
30°	792.2	800.2	812.4	831.2	837.9
32.5°	769.3	773.3	788.1	805.6	811.0
35°	741.1	746.5	759.9	777.4	781.4
37.5°	712.8	716.9	730.3	746.5	750.5
40°	680.5	684.6	696.7	712.8	716.9
42.5°	648.3	651.0	661.7	675.2	675.2
45°	617.3	613.3	622.7	633.5	633.5
47.5°	578.3	578.3	585.1	590.4	590.4
50°	542.0	539.3	542.0	544.7	547.4
52.5°	504.4	499.0	497.6	497.6	496.3
55°	465.4	455.9	454.6	450.6	447.9
57.5°	422.3	415.6	407.5	402.1	399.5
60°	382.0	369.9	364.5	355.1	351.0
62.5°	341.6	330.9	318.8	309.3	305.3
65°	302.6	287.8	277.1	263.6	258.2
67.5°	262.3	248.8	235.4	223.3	217.9
70°	227.3	211.2	197.7	180.2	174.8
72.5°	191.0	176.2	160.0	143.9	137.2
75°	154.7	142.6	126.4	110.3	104.9
77.5°	121.0	110.3	94.1	80.7	79.4
80°	90.1	80.7	65.9	60.5	59.2
82.5°	64.6	53.8	44.4	43.0	43.0
85°	39.0	29.6	28.2	28.2	28.2
87.5°	14.8	13.4	14.8	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)