

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: P229500

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-35-RDP-UNV-L930-CD1-U  
Description: METALUX 1X4 RLN LED TROFFER WITH RDP LENS  
Light Source: (112)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2524.0 lumens  
Efficiency: N/A  
Efficacy: 70.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

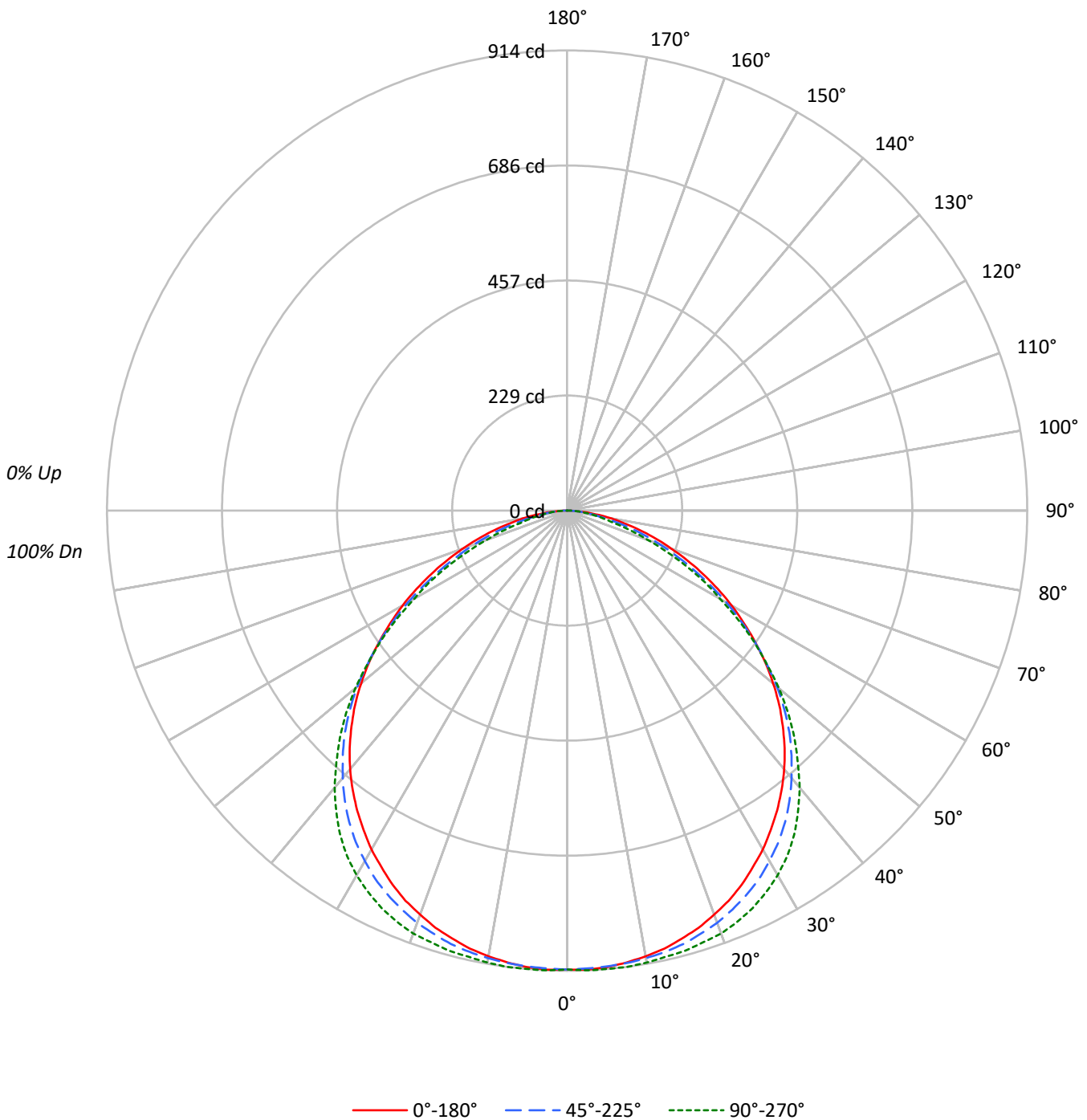
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	30	56	44	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27	25

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

	0°	45°	90°
0°	3071	3071	3071
5°	3079	3075	3092
10°	3076	3089	3119
15°	3071	3110	3158
20°	3062	3125	3206
25°	3049	3133	3240
30°	3025	3127	3254
35°	2991	3105	3234
40°	2951	3050	3160
45°	2886	2975	3041
50°	2800	2852	2879
55°	2681	2674	2659
60°	2543	2459	2366
65°	2369	2199	2079
70°	2162	1927	1680
75°	1942	1600	1256
80°	1727	1168	1094
85°	1357	970	970



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.8	3.4
10°-20°	252.2	10.0
20°-30°	389.2	15.4
30°-40°	472.0	18.7
40°-50°	479.2	19.0
50°-60°	405.4	16.1
60°-70°	274.3	10.9
70°-80°	132.6	5.3
80°-90°	32.4	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°	728.1	28.8
0°-40°	1200.1	47.5
0°-60°	2084.7	82.6
0°-90°	2524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2524.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	910	910	909	913	914	87
15°	880	885	891	902	905	249
25°	820	826	843	864	871	378
35°	727	735	755	779	786	455
45°	606	607	624	637	638	467
55°	456	453	455	455	453	408
65°	297	285	276	265	261	295
75°	149	138	123	107	96	159
85°	35	28	25	25	25	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	911.5	911.5	911.5	911.5	911.5
2.5°	912.8	912.8	910.3	912.8	914.0
5°	910.3	910.3	909.0	912.8	914.0
7.5°	905.2	906.5	906.5	911.5	914.0
10°	899.0	901.5	902.7	910.3	911.5
12.5°	891.4	894.0	897.7	906.5	907.7
15°	880.2	885.2	891.4	901.5	905.2
17.5°	868.9	873.9	881.4	895.2	899.0
20°	853.8	860.1	871.4	887.7	894.0
22.5°	838.8	843.8	857.6	877.7	883.9
25°	820.0	826.3	842.6	863.9	871.4
27.5°	798.7	807.4	825.0	847.6	855.1
30°	777.4	784.9	803.7	828.8	836.3
32.5°	752.3	759.8	781.1	804.9	813.7
35°	727.2	734.7	754.8	778.6	786.1
37.5°	699.6	704.6	725.9	746.0	753.5
40°	670.8	674.5	693.3	713.4	718.4
42.5°	639.4	641.9	659.5	677.0	678.3
45°	605.6	606.8	624.4	636.9	638.2
47.5°	571.7	570.5	585.5	594.3	595.6
50°	534.1	534.1	544.1	549.2	549.2
52.5°	496.5	494.0	499.0	502.8	499.0
55°	456.4	452.6	455.1	455.1	452.6
57.5°	416.3	408.7	410.0	407.5	401.2
60°	377.4	368.6	364.9	356.1	351.1
62.5°	337.3	327.2	319.7	309.7	308.4
65°	297.1	284.6	275.8	264.6	260.8
67.5°	258.3	247.0	234.5	221.9	214.4
70°	219.4	206.9	195.6	179.3	170.5
72.5°	184.3	173.0	159.2	140.4	134.2
75°	149.2	137.9	122.9	106.6	96.5
77.5°	115.3	106.6	90.3	76.5	75.2
80°	89.0	79.0	60.2	56.4	56.4
82.5°	57.7	51.4	42.6	40.1	40.1
85°	35.1	27.6	25.1	25.1	25.1
87.5°	13.8	12.5	12.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)