

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: P229564

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229564
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-LD5-31-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: 2249.0 lumens
Efficiency: N/A
Efficacy: 73.5 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

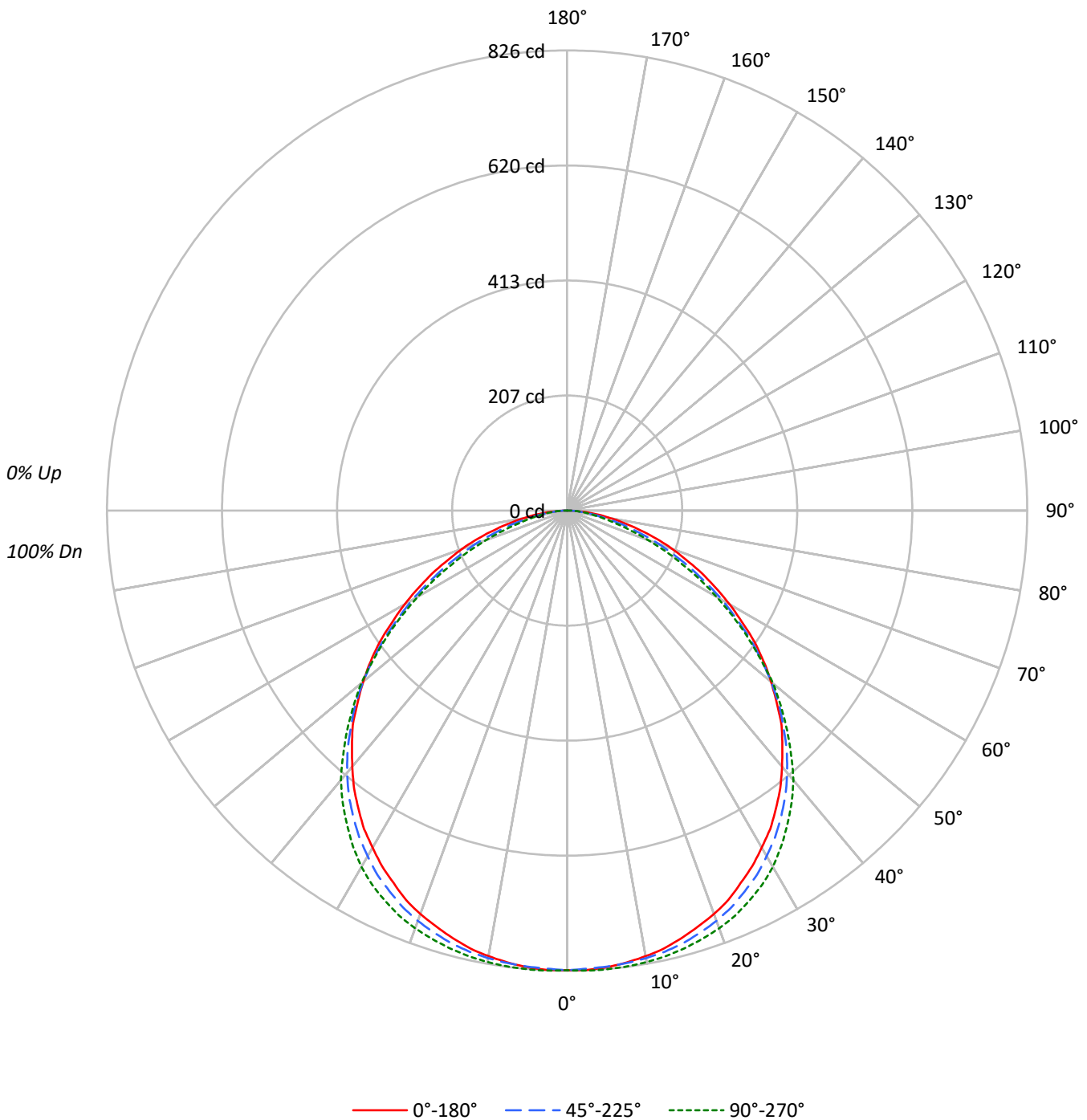
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2781	2781	2781
5°	2783	2779	2796
10°	2779	2791	2816
15°	2771	2804	2838
20°	2764	2811	2862
25°	2742	2804	2874
30°	2717	2787	2874
35°	2687	2756	2834
40°	2639	2702	2780
45°	2594	2616	2661
50°	2505	2505	2530
55°	2410	2355	2319
60°	2269	2165	2086
65°	2127	1948	1815
70°	1974	1717	1518
75°	1776	1452	1204
80°	1541	1127	1013
85°	1330	963	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	3.5
10°-20°	227.1	10.1
20°-30°	348.2	15.5
30°-40°	419.4	18.6
40°-50°	423.8	18.8
50°-60°	357.6	15.9
60°-70°	243.1	10.8
70°-80°	120.5	5.4
80°-90°	30.8	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°	653.8	29.1
0°-40°	1073.2	47.7
0°-60°	1854.6	82.5
0°-90°	2249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	823	823	822	825	826	78
15°	794	798	804	811	813	224
25°	738	744	754	770	773	340
35°	653	658	670	685	689	409
45°	544	541	549	558	558	418
55°	410	402	401	397	395	365
65°	267	254	244	232	228	264
75°	136	126	112	97	92	145
85°	34	26	25	25	25	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.3	825.3	825.3	825.3	825.3
2.5°	825.3	825.3	822.9	826.5	826.5
5°	822.9	822.9	821.7	825.3	826.5
7.5°	818.2	819.3	819.3	824.1	825.3
10°	812.2	813.4	815.8	821.7	822.9
12.5°	805.1	807.5	811.0	817.0	819.3
15°	794.4	798.0	803.9	811.0	813.4
17.5°	782.6	787.3	794.4	803.9	806.3
20°	770.7	774.3	783.8	794.4	798.0
22.5°	756.5	761.2	770.7	782.6	787.3
25°	737.5	743.5	754.1	769.5	773.1
27.5°	719.7	725.7	737.5	752.9	757.7
30°	698.4	705.5	716.2	732.8	738.7
32.5°	678.2	681.8	694.8	710.3	715.0
35°	653.3	658.1	669.9	685.4	688.9
37.5°	628.4	632.0	643.9	658.1	661.6
40°	600.0	603.5	614.2	628.4	632.0
42.5°	571.5	573.9	583.4	595.2	595.2
45°	544.3	540.7	549.0	558.5	558.5
47.5°	509.9	509.9	515.8	520.5	520.5
50°	477.9	475.5	477.9	480.2	482.6
52.5°	444.6	439.9	438.7	438.7	437.5
55°	410.3	402.0	400.8	397.2	394.8
57.5°	372.3	366.4	359.3	354.5	352.2
60°	336.7	326.1	321.3	313.0	309.5
62.5°	301.2	291.7	281.0	272.7	269.2
65°	266.8	253.7	244.3	232.4	227.7
67.5°	231.2	219.4	207.5	196.8	192.1
70°	200.4	186.2	174.3	158.9	154.1
72.5°	168.4	155.3	141.1	126.9	120.9
75°	136.4	125.7	111.5	97.2	92.5
77.5°	106.7	97.2	83.0	71.1	70.0
80°	79.4	71.1	58.1	53.4	52.2
82.5°	56.9	47.4	39.1	37.9	37.9
85°	34.4	26.1	24.9	24.9	24.9
87.5°	13.0	11.9	13.0	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)