

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: P229474

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36058)
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-L935-CD1-U
Description: METALUX 1X4 RLN LED TROFFER
Light Source: (112)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2721.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

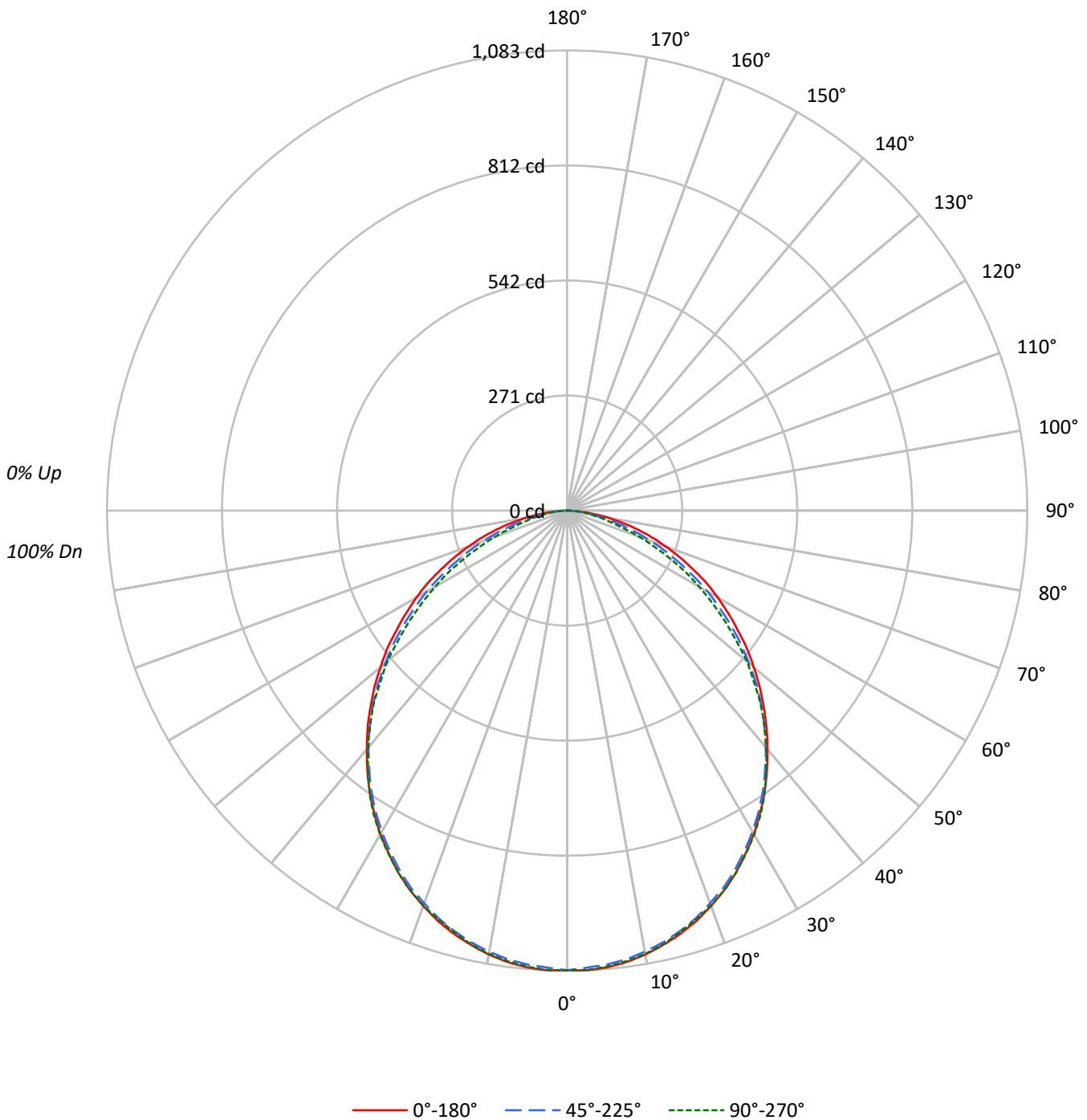
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	91	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34		45	39	34		44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3645	3645	3645
5°	3650	3627	3643
10°	3631	3608	3624
15°	3597	3576	3583
20°	3551	3527	3546
25°	3495	3470	3495
30°	3421	3395	3426
35°	3333	3306	3333
40°	3226	3200	3203
45°	3119	3078	3068
50°	3004	2927	2895
55°	2879	2761	2659
60°	2758	2577	2419
65°	2606	2330	2132
70°	2430	2068	1792
75°	2229	1733	1384
80°	1921	1298	1193
85°	1550	1086	1110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	3.8
10°-20°	290.0	10.7
20°-30°	431.6	15.9
30°-40°	504.5	18.5
40°-50°	498.6	18.3
50°-60°	421.0	15.5
60°-70°	291.6	10.7
70°-80°	145.5	5.3
80°-90°	36.2	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°	823.7	30.3
0°-40°	1328.2	48.8
0°-60°	2247.7	82.6
0°-90°	2721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1079	1077	1072	1078	1077	102
15°	1031	1030	1025	1030	1027	291
25°	940	937	933	939	940	433
35°	810	806	804	810	810	506
45°	655	647	646	644	644	505
55°	490	481	470	460	453	439
65°	327	312	292	277	267	324
75°	171	156	133	115	106	181
85°	40	31	28	28	29	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1081.8	1081.8	1081.8	1081.8	1081.8
2.5°	1083.1	1081.1	1076.5	1081.8	1082.5
5°	1079.1	1077.1	1072.4	1077.8	1077.1
7.5°	1071.8	1069.1	1065.1	1069.8	1069.8
10°	1061.1	1059.1	1054.4	1059.7	1059.1
12.5°	1047.0	1045.7	1041.0	1046.4	1045.7
15°	1031.0	1029.7	1025.0	1029.7	1027.0
17.5°	1012.3	1011.6	1006.2	1009.6	1008.9
20°	990.2	988.9	983.5	990.2	988.9
22.5°	966.8	964.1	960.8	966.1	966.8
25°	940.1	937.4	933.4	939.4	940.1
27.5°	909.3	907.3	903.3	912.0	910.6
30°	879.2	877.2	872.5	879.9	880.6
32.5°	844.4	842.4	839.1	846.5	847.8
35°	810.3	806.3	803.7	809.7	810.3
37.5°	772.2	768.2	765.6	771.6	770.2
40°	733.5	728.8	727.4	732.1	728.1
42.5°	695.3	689.3	686.7	689.3	686.7
45°	654.6	647.2	645.9	644.5	643.9
47.5°	615.1	607.1	603.7	599.1	595.7
50°	573.0	564.3	558.3	553.6	552.3
52.5°	533.5	523.5	514.8	510.8	500.1
55°	490.1	481.4	470.0	460.0	452.6
57.5°	449.3	437.9	424.6	413.9	404.5
60°	409.2	394.5	382.4	365.7	359.0
62.5°	369.7	353.0	336.3	318.3	314.9
65°	326.9	311.6	292.2	276.8	267.4
67.5°	286.2	270.1	251.4	230.0	221.3
70°	246.7	229.3	209.9	189.2	181.9
72.5°	208.6	191.2	171.2	149.1	140.4
75°	171.2	155.8	133.1	115.0	106.3
77.5°	133.1	120.3	98.3	83.6	82.2
80°	99.0	87.6	66.9	63.5	61.5
82.5°	68.2	57.5	47.5	45.5	44.1
85°	40.1	30.8	28.1	28.1	28.7
87.5°	15.4	13.4	13.4	13.4	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)