

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: P229544

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229544
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-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: 2507.0 lumens
Efficiency: N/A
Efficacy: 81.9 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

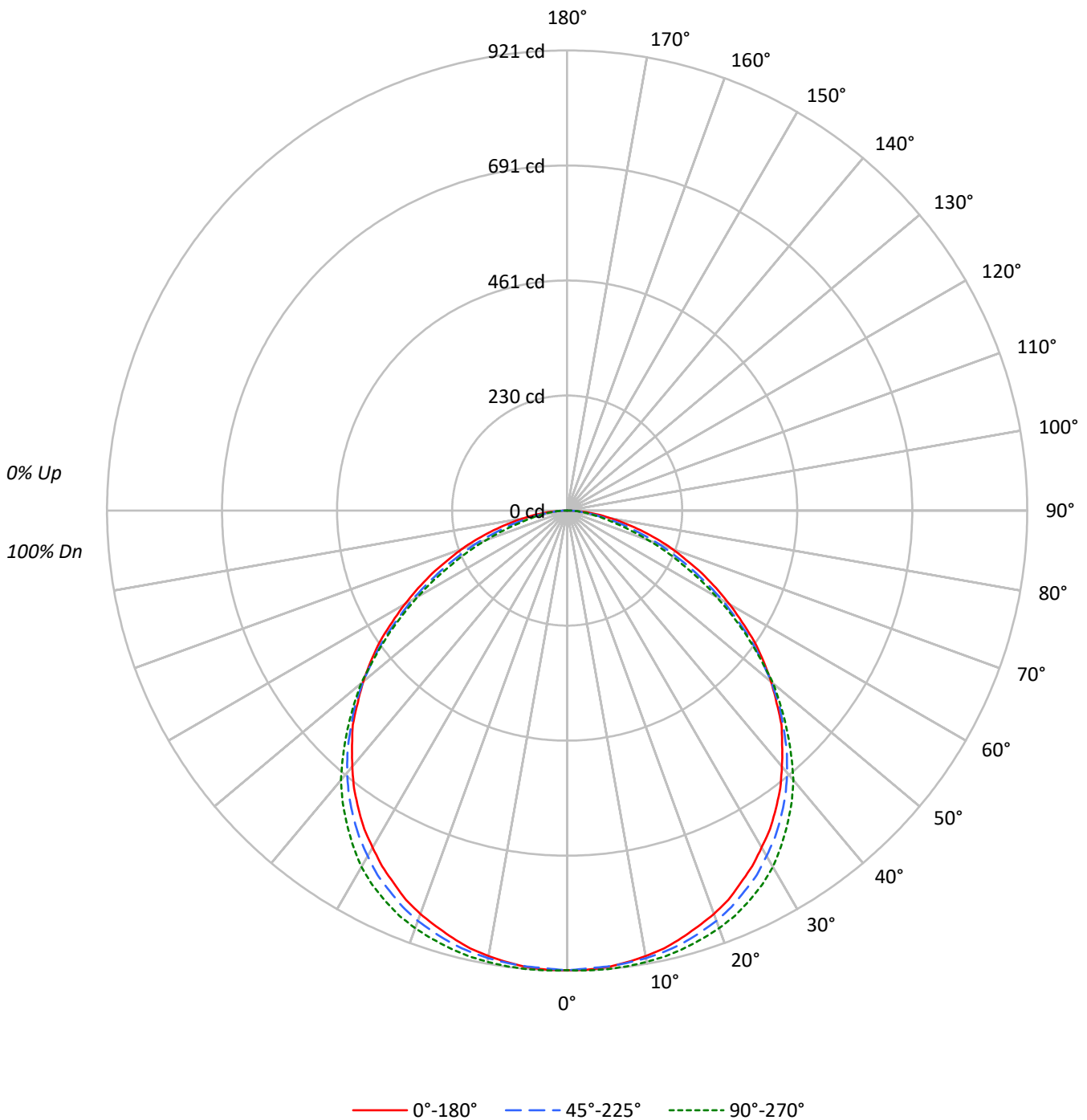
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3100	3100	3100
5°	3103	3098	3116
10°	3098	3112	3139
15°	3089	3126	3163
20°	3081	3133	3190
25°	3057	3125	3204
30°	3029	3106	3204
35°	2996	3072	3159
40°	2942	3012	3099
45°	2891	2916	2966
50°	2792	2792	2820
55°	2687	2625	2585
60°	2530	2414	2325
65°	2371	2171	2024
70°	2201	1914	1693
75°	1979	1617	1342
80°	1719	1257	1129
85°	1481	1075	1075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.5
10°-20°	253.2	10.1
20°-30°	388.2	15.5
30°-40°	467.5	18.6
40°-50°	472.4	18.8
50°-60°	398.7	15.9
60°-70°	271.0	10.8
70°-80°	134.3	5.4
80°-90°	34.3	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°	728.8	29.1
0°-40°	1196.3	47.7
0°-60°	2067.4	82.5
0°-90°	2507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	917	917	916	920	921	87
15°	886	890	896	904	907	250
25°	822	829	841	858	862	379
35°	728	734	747	764	768	455
45°	607	603	612	622	622	466
55°	457	448	447	443	440	407
65°	297	283	272	259	254	294
75°	152	140	124	108	103	162
85°	38	29	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°	919.9	919.9	919.9	919.9	919.9
2.5°	919.9	919.9	917.3	921.3	921.3
5°	917.3	917.3	916.0	919.9	921.3
7.5°	912.0	913.3	913.3	918.6	919.9
10°	905.4	906.7	909.4	916.0	917.3
12.5°	897.5	900.1	904.1	910.7	913.3
15°	885.6	889.5	896.2	904.1	906.7
17.5°	872.4	877.6	885.6	896.2	898.8
20°	859.1	863.1	873.7	885.6	889.5
22.5°	843.3	848.6	859.1	872.4	877.6
25°	822.1	828.7	840.6	857.8	861.8
27.5°	802.3	808.9	822.1	839.3	844.6
30°	778.5	786.4	798.3	816.8	823.5
32.5°	756.0	760.0	774.5	791.7	797.0
35°	728.3	733.6	746.8	764.0	767.9
37.5°	700.5	704.5	717.7	733.6	737.5
40°	668.8	672.8	684.7	700.5	704.5
42.5°	637.1	639.7	650.3	663.5	663.5
45°	606.7	602.7	612.0	622.5	622.5
47.5°	568.4	568.4	575.0	580.3	580.3
50°	532.7	530.0	532.7	535.3	538.0
52.5°	495.7	490.4	489.1	489.1	487.7
55°	457.3	448.1	446.8	442.8	440.1
57.5°	415.0	408.4	400.5	395.2	392.6
60°	375.4	363.5	358.2	348.9	345.0
62.5°	335.7	325.2	313.3	304.0	300.0
65°	297.4	282.9	272.3	259.1	253.8
67.5°	257.7	244.5	231.3	219.4	214.1
70°	223.4	207.5	194.3	177.1	171.8
72.5°	187.7	173.2	157.3	141.4	134.8
75°	152.0	140.1	124.2	108.4	103.1
77.5°	119.0	108.4	92.5	79.3	78.0
80°	88.6	79.3	64.8	59.5	58.2
82.5°	63.4	52.9	43.6	42.3	42.3
85°	38.3	29.1	27.8	27.8	27.8
87.5°	14.5	13.2	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)