

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: P229542

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229542
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-LD5-23-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: 1883.0 lumens
Efficiency: N/A
Efficacy: 86.0 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

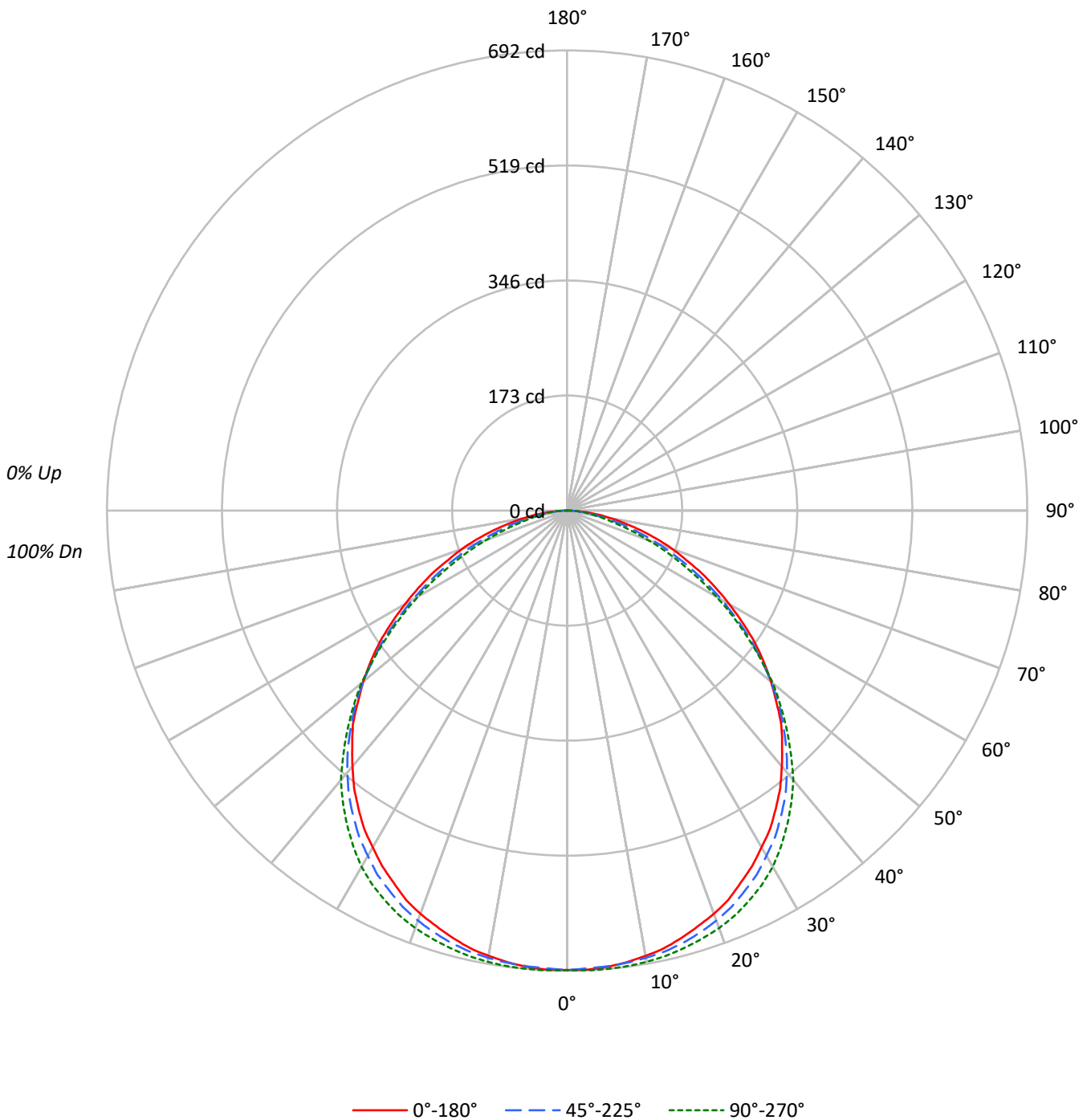
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2328	2328	2328
5°	2331	2327	2341
10°	2327	2337	2357
15°	2321	2348	2376
20°	2314	2353	2396
25°	2296	2348	2407
30°	2275	2333	2407
35°	2250	2307	2373
40°	2209	2262	2327
45°	2172	2191	2228
50°	2097	2097	2118
55°	2018	1972	1942
60°	1900	1813	1746
65°	1781	1631	1520
70°	1653	1437	1272
75°	1487	1215	1008
80°	1290	943	848
85°	1113	804	804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	3.5
10°-20°	190.2	10.1
20°-30°	291.6	15.5
30°-40°	351.2	18.6
40°-50°	354.8	18.8
50°-60°	299.4	15.9
60°-70°	203.5	10.8
70°-80°	100.9	5.4
80°-90°	25.8	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°	547.4	29.1
0°-40°	898.6	47.7
0°-60°	1552.8	82.5
0°-90°	1883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	689	689	688	691	692	65
15°	665	668	673	679	681	188
25°	618	622	631	644	647	285
35°	547	551	561	574	577	342
45°	456	453	460	468	468	350
55°	344	336	336	333	331	306
65°	223	212	204	195	191	221
75°	114	105	93	81	77	122
85°	29	22	21	21	21	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.0	691.0	691.0	691.0	691.0
2.5°	691.0	691.0	689.0	692.0	692.0
5°	689.0	689.0	688.0	691.0	692.0
7.5°	685.0	686.0	686.0	690.0	691.0
10°	680.0	681.0	683.0	688.0	689.0
12.5°	674.1	676.1	679.1	684.0	686.0
15°	665.2	668.1	673.1	679.1	681.0
17.5°	655.2	659.2	665.2	673.1	675.1
20°	645.3	648.3	656.2	665.2	668.1
22.5°	633.4	637.4	645.3	655.2	659.2
25°	617.5	622.5	631.4	644.3	647.3
27.5°	602.6	607.6	617.5	630.4	634.4
30°	584.7	590.7	599.6	613.5	618.5
32.5°	567.9	570.8	581.8	594.7	598.6
35°	547.0	551.0	560.9	573.8	576.8
37.5°	526.2	529.1	539.1	551.0	554.0
40°	502.3	505.3	514.3	526.2	529.1
42.5°	478.5	480.5	488.4	498.4	498.4
45°	455.7	452.7	459.7	467.6	467.6
47.5°	426.9	426.9	431.9	435.8	435.8
50°	400.1	398.1	400.1	402.1	404.1
52.5°	372.3	368.3	367.3	367.3	366.3
55°	343.5	336.5	335.6	332.6	330.6
57.5°	311.7	306.8	300.8	296.8	294.9
60°	281.9	273.0	269.0	262.1	259.1
62.5°	252.2	244.2	235.3	228.3	225.4
65°	223.4	212.5	204.5	194.6	190.6
67.5°	193.6	183.7	173.7	164.8	160.8
70°	167.8	155.9	145.9	133.0	129.1
72.5°	141.0	130.1	118.1	106.2	101.3
75°	114.2	105.2	93.3	81.4	77.4
77.5°	89.3	81.4	69.5	59.6	58.6
80°	66.5	59.6	48.6	44.7	43.7
82.5°	47.7	39.7	32.8	31.8	31.8
85°	28.8	21.8	20.8	20.8	20.8
87.5°	10.9	9.9	10.9	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)