

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: P229523

Luminaire Tested: **14RLN-LD5-26-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36064)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-26-UNV-L840-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR
Light Source: (112)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2579.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

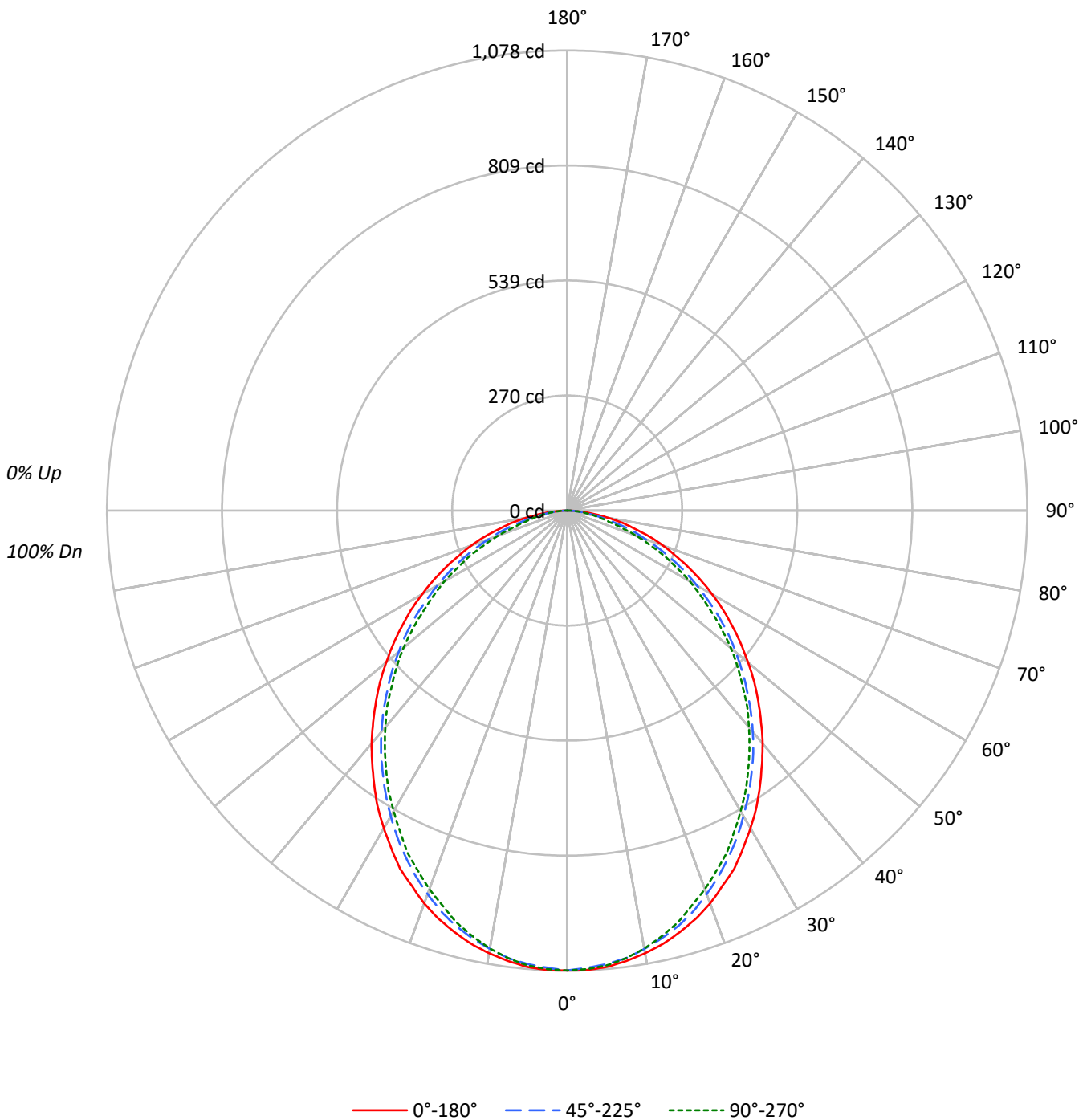
Input Watts (W): 24.72
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3631	3631	3631
5°	3629	3607	3618
10°	3603	3568	3565
15°	3564	3514	3486
20°	3512	3428	3384
25°	3442	3330	3289
30°	3341	3216	3164
35°	3239	3097	3042
40°	3135	2978	2914
45°	3019	2838	2769
50°	2900	2701	2625
55°	2778	2549	2418
60°	2646	2367	2240
65°	2499	2170	2010
70°	2352	1923	1703
75°	2120	1640	1321
80°	1882	1298	1168
85°	1554	1036	1079



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	3.9
10°-20°	284.2	11.0
20°-30°	414.2	16.1
30°-40°	474.8	18.4
40°-50°	464.2	18.0
50°-60°	391.6	15.2
60°-70°	273.8	10.6
70°-80°	139.6	5.4
80°-90°	35.2	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°	799.7	31.0
0°-40°	1274.6	49.4
0°-60°	2130.4	82.6
0°-90°	2579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1073	1071	1066	1070	1070	102
15°	1022	1018	1007	1004	999	288
25°	926	915	896	887	884	425
35°	788	776	753	745	740	493
45°	634	617	596	588	581	489
55°	473	455	434	422	412	423
65°	313	294	272	256	252	310
75°	163	150	126	110	102	175
85°	40	30	27	28	28	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.5	1077.5	1077.5	1077.5	1077.5
2.5°	1077.5	1075.2	1071.9	1076.3	1075.2
5°	1073.0	1070.8	1066.3	1069.6	1069.6
7.5°	1064.1	1061.8	1057.4	1059.6	1057.4
10°	1052.9	1050.7	1042.9	1044.0	1041.8
12.5°	1039.5	1035.1	1026.1	1025.0	1021.7
15°	1021.7	1018.3	1007.2	1003.8	999.4
17.5°	1002.7	996.0	983.8	977.1	970.4
20°	979.3	970.4	955.9	948.1	943.6
22.5°	951.4	944.7	926.9	918.0	913.5
25°	925.8	914.6	895.6	886.7	884.5
27.5°	892.3	883.4	862.2	854.4	847.7
30°	858.8	848.8	826.5	818.7	813.1
32.5°	825.4	814.2	790.8	781.9	778.5
35°	787.5	776.3	752.9	745.1	739.5
37.5°	749.5	736.1	716.1	707.2	701.6
40°	712.7	697.1	677.0	667.0	662.5
42.5°	672.6	655.8	636.9	626.8	624.6
45°	633.5	616.8	595.6	587.8	581.1
47.5°	594.5	575.5	556.6	545.4	541.0
50°	553.2	535.4	515.3	504.2	500.8
52.5°	513.1	495.2	476.3	464.0	456.2
55°	472.9	455.1	433.9	421.6	411.6
57.5°	433.9	412.7	391.5	377.0	371.4
60°	392.6	373.7	351.3	336.8	332.4
62.5°	352.5	335.7	312.3	295.6	287.8
65°	313.4	294.5	272.2	256.5	252.1
67.5°	273.3	256.5	234.2	216.4	208.6
70°	238.7	217.5	195.2	179.6	172.9
72.5°	201.9	182.9	161.7	143.9	133.8
75°	162.8	149.5	126.0	110.4	101.5
77.5°	131.6	116.0	94.8	82.5	80.3
80°	97.0	84.8	66.9	61.3	60.2
82.5°	68.0	55.8	45.7	43.5	42.4
85°	40.2	30.1	26.8	27.9	27.9
87.5°	16.7	12.3	12.3	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)