

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: P229463

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229463
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-LD5-26-UNV-L840-CD1-U
Description: METALUX 1X4 RLN LED TROFFER
Light Source: (112)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

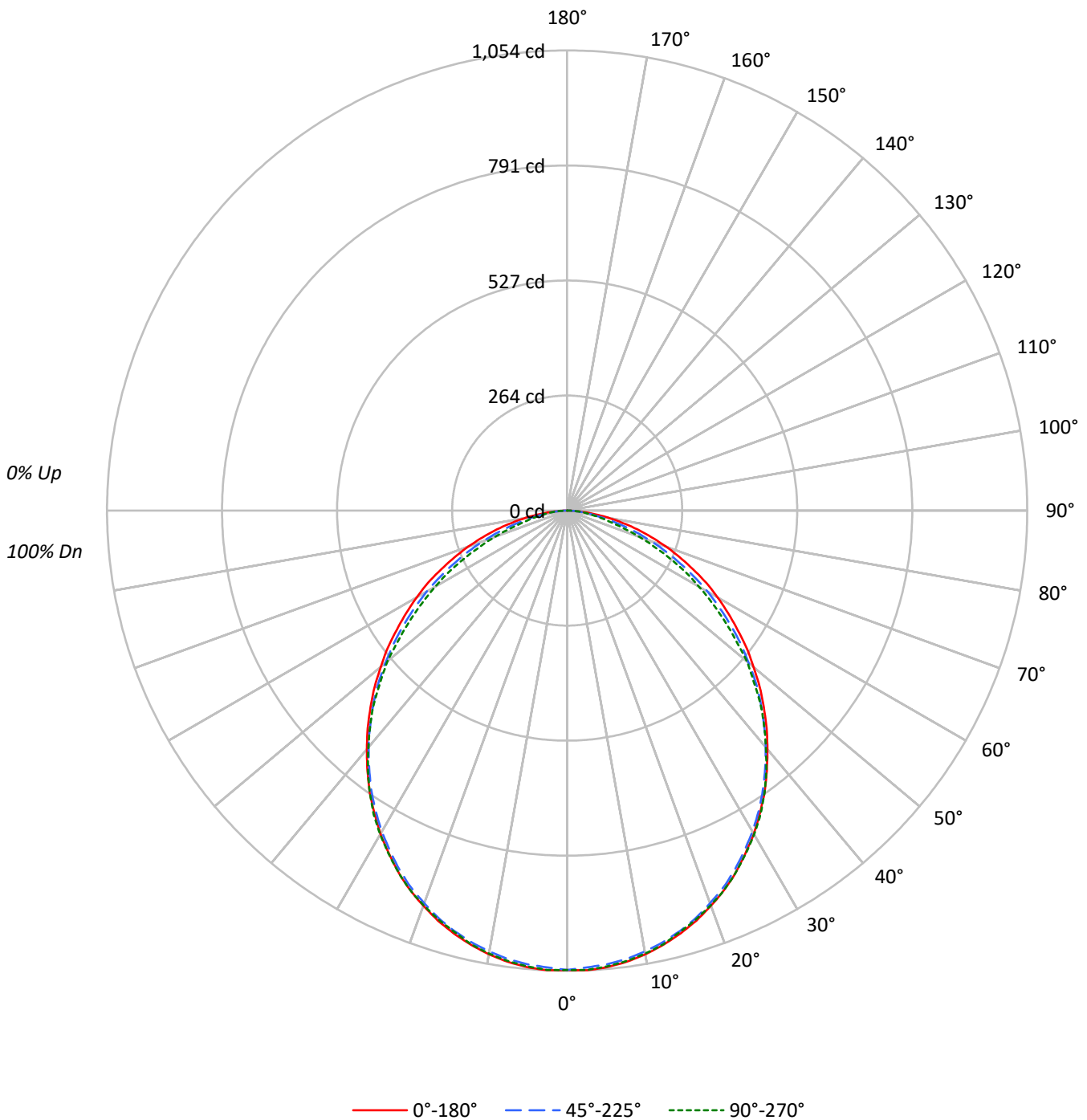
Lumens per Lamp: N/A
Luminaire Lumens: 2647.0 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3546	3546	3546
5°	3551	3529	3544
10°	3532	3510	3525
15°	3499	3478	3485
20°	3454	3431	3450
25°	3400	3376	3400
30°	3328	3303	3333
35°	3243	3216	3243
40°	3138	3113	3116
45°	3035	2994	2985
50°	2922	2847	2816
55°	2801	2686	2587
60°	2683	2507	2354
65°	2536	2266	2075
70°	2364	2012	1743
75°	2168	1685	1346
80°	1869	1261	1160
85°	1508	1055	1083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	3.8
10°-20°	282.1	10.7
20°-30°	419.9	15.9
30°-40°	490.8	18.5
40°-50°	485.0	18.3
50°-60°	409.5	15.5
60°-70°	283.7	10.7
70°-80°	141.6	5.3
80°-90°	35.2	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°	801.3	30.3
0°-40°	1292.1	48.8
0°-60°	2186.6	82.6
0°-90°	2647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1050	1048	1043	1048	1048	100
15°	1003	1002	997	1002	999	283
25°	914	912	908	914	914	421
35°	788	784	782	788	788	492
45°	637	630	628	627	626	491
55°	477	468	457	448	440	427
65°	318	303	284	269	260	315
75°	166	152	129	112	103	176
85°	39	30	27	27	28	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.4	1052.4	1052.4	1052.4	1052.4
2.5°	1053.7	1051.7	1047.2	1052.4	1053.0
5°	1049.8	1047.8	1043.3	1048.5	1047.8
7.5°	1042.6	1040.0	1036.1	1040.7	1040.7
10°	1032.2	1030.3	1025.7	1030.9	1030.3
12.5°	1018.6	1017.3	1012.7	1017.9	1017.3
15°	1002.9	1001.6	997.1	1001.6	999.0
17.5°	984.7	984.1	978.9	982.1	981.5
20°	963.3	962.0	956.8	963.3	962.0
22.5°	940.5	937.9	934.7	939.9	940.5
25°	914.5	911.9	908.0	913.8	914.5
27.5°	884.6	882.6	878.7	887.2	885.9
30°	855.3	853.4	848.8	856.0	856.6
32.5°	821.5	819.5	816.3	823.4	824.7
35°	788.3	784.4	781.8	787.7	788.3
37.5°	751.2	747.3	744.7	750.6	749.3
40°	713.5	709.0	707.7	712.2	708.3
42.5°	676.4	670.6	668.0	670.6	668.0
45°	636.8	629.6	628.3	627.0	626.4
47.5°	598.4	590.6	587.3	582.8	579.5
50°	557.4	549.0	543.1	538.5	537.2
52.5°	519.0	509.3	500.8	496.9	486.5
55°	476.8	468.3	457.2	447.5	440.3
57.5°	437.1	426.0	413.0	402.6	393.5
60°	398.1	383.7	372.0	355.8	349.3
62.5°	359.7	343.4	327.2	309.6	306.3
65°	318.1	303.1	284.2	269.3	260.2
67.5°	278.4	262.8	244.6	223.7	215.3
70°	240.0	223.1	204.2	184.1	176.9
72.5°	202.9	186.0	166.5	145.0	136.6
75°	166.5	151.5	129.4	111.9	103.4
77.5°	129.4	117.1	95.6	81.3	80.0
80°	96.3	85.2	65.0	61.8	59.8
82.5°	66.3	55.9	46.2	44.2	42.9
85°	39.0	29.9	27.3	27.3	28.0
87.5°	15.0	13.0	13.0	13.0	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)