

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: P229553

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229553
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-LD5-26-RDP-UNV-L840-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (112)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2188.0 lumens
Efficiency: N/A
Efficacy: 88.5 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

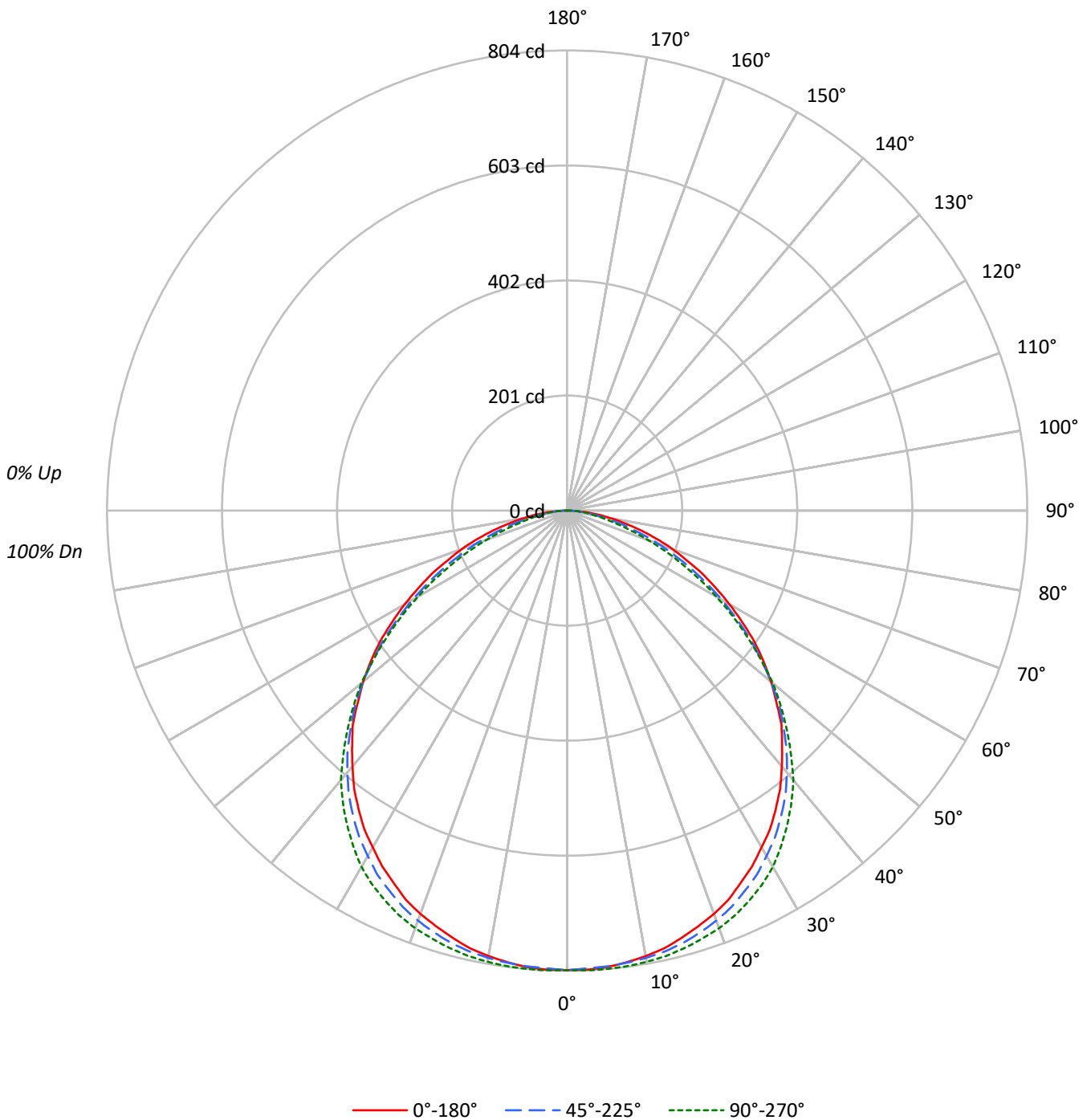
Input Watts (W): 24.72
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2705	2705	2705
5°	2708	2704	2719
10°	2704	2716	2739
15°	2696	2728	2761
20°	2689	2734	2784
25°	2668	2728	2796
30°	2644	2711	2796
35°	2615	2681	2757
40°	2568	2629	2705
45°	2523	2545	2589
50°	2437	2437	2461
55°	2345	2291	2256
60°	2208	2107	2029
65°	2070	1894	1766
70°	1921	1671	1478
75°	1728	1411	1172
80°	1500	1096	986
85°	1295	936	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.5
10°-20°	221.0	10.1
20°-30°	338.8	15.5
30°-40°	408.1	18.6
40°-50°	412.3	18.8
50°-60°	347.9	15.9
60°-70°	236.5	10.8
70°-80°	117.2	5.4
80°-90°	29.9	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°	636.1	29.1
0°-40°	1044.1	47.7
0°-60°	1804.3	82.5
0°-90°	2188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	801	801	799	803	804	76
15°	773	776	782	789	791	218
25°	718	723	734	749	752	331
35°	636	640	652	667	670	397
45°	530	526	534	543	543	406
55°	399	391	390	386	384	355
65°	260	247	238	226	222	257
75°	133	122	108	95	90	141
85°	34	25	24	24	24	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.9	802.9	802.9	802.9	802.9
2.5°	802.9	802.9	800.6	804.0	804.0
5°	800.6	800.6	799.4	802.9	804.0
7.5°	796.0	797.1	797.1	801.7	802.9
10°	790.2	791.4	793.7	799.4	800.6
12.5°	783.3	785.6	789.0	794.8	797.1
15°	772.9	776.4	782.1	789.0	791.4
17.5°	761.4	766.0	772.9	782.1	784.4
20°	749.8	753.3	762.5	772.9	776.4
22.5°	736.0	740.6	749.8	761.4	766.0
25°	717.5	723.3	733.7	748.7	752.1
27.5°	700.2	706.0	717.5	732.5	737.1
30°	679.5	686.4	696.8	712.9	718.7
32.5°	659.8	663.3	676.0	691.0	695.6
35°	635.6	640.2	651.8	666.8	670.2
37.5°	611.4	614.9	626.4	640.2	643.7
40°	583.7	587.2	597.6	611.4	614.9
42.5°	556.0	558.3	567.6	579.1	579.1
45°	529.5	526.0	534.1	543.3	543.3
47.5°	496.0	496.0	501.8	506.4	506.4
50°	464.9	462.6	464.9	467.2	469.5
52.5°	432.6	428.0	426.8	426.8	425.7
55°	399.1	391.1	389.9	386.4	384.1
57.5°	362.2	356.5	349.5	344.9	342.6
60°	327.6	317.2	312.6	304.5	301.1
62.5°	293.0	283.8	273.4	265.3	261.9
65°	259.6	246.9	237.6	226.1	221.5
67.5°	224.9	213.4	201.9	191.5	186.9
70°	195.0	181.1	169.6	154.6	150.0
72.5°	163.8	151.1	137.3	123.4	117.7
75°	132.7	122.3	108.4	94.6	90.0
77.5°	103.8	94.6	80.8	69.2	68.1
80°	77.3	69.2	56.5	51.9	50.8
82.5°	55.4	46.1	38.1	36.9	36.9
85°	33.5	25.4	24.2	24.2	24.2
87.5°	12.7	11.5	12.7	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)