

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: P229498

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-26-RDP-UNV-L930-CD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH RDP LENS
Light Source: (112)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1864.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

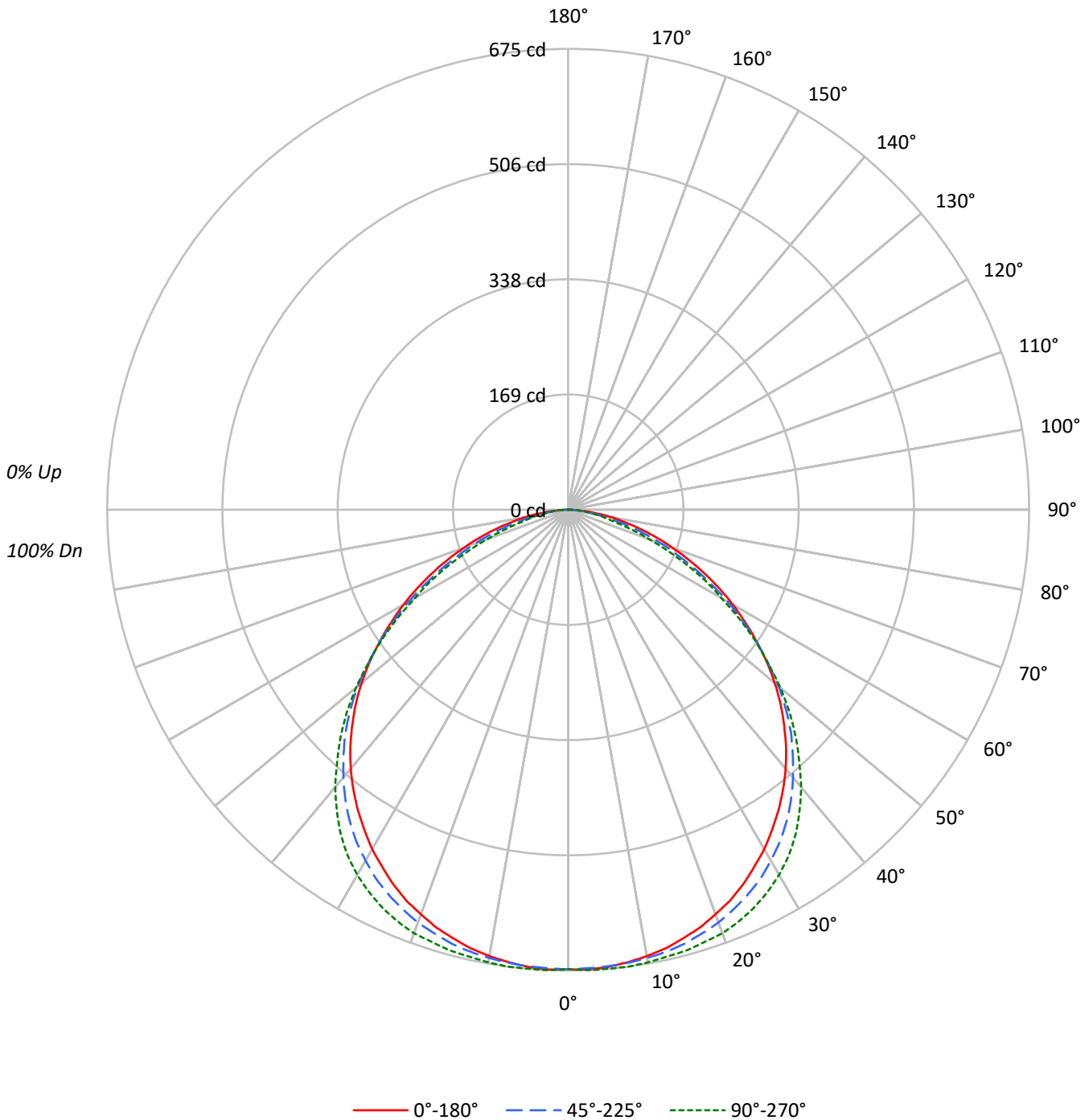
Input Watts (W): 24.72
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2268	2268	2268
5°	2274	2271	2283
10°	2272	2281	2303
15°	2267	2296	2332
20°	2261	2307	2367
25°	2252	2313	2392
30°	2234	2309	2403
35°	2209	2293	2388
40°	2179	2252	2334
45°	2131	2197	2246
50°	2068	2107	2126
55°	1980	1974	1964
60°	1878	1816	1747
65°	1749	1624	1536
70°	1596	1423	1240
75°	1435	1181	928
80°	1275	862	809
85°	1001	715	715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	3.4
10°-20°	186.2	10.0
20°-30°	287.4	15.4
30°-40°	348.6	18.7
40°-50°	353.9	19.0
50°-60°	299.4	16.1
60°-70°	202.6	10.9
70°-80°	97.9	5.3
80°-90°	23.9	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°	537.7	28.8
0°-40°	886.3	47.5
0°-60°	1539.6	82.6
0°-90°	1864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	672	672	671	674	675	64
15°	650	654	658	666	668	184
25°	606	610	622	638	644	279
35°	537	543	557	575	581	336
45°	447	448	461	470	471	345
55°	337	334	336	336	334	301
65°	219	210	204	195	193	218
75°	110	102	91	79	71	117
85°	26	20	18	18	18	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.2	673.2	673.2	673.2	673.2
2.5°	674.1	674.1	672.2	674.1	675.0
5°	672.2	672.2	671.3	674.1	675.0
7.5°	668.5	669.5	669.5	673.2	675.0
10°	663.9	665.8	666.7	672.2	673.2
12.5°	658.3	660.2	663.0	669.5	670.4
15°	650.0	653.7	658.3	665.8	668.5
17.5°	641.7	645.4	650.9	661.1	663.9
20°	630.6	635.2	643.5	655.6	660.2
22.5°	619.5	623.2	633.3	648.2	652.8
25°	605.6	610.2	622.2	638.0	643.5
27.5°	589.8	596.3	609.3	625.9	631.5
30°	574.1	579.6	593.5	612.0	617.6
32.5°	555.6	561.1	576.9	594.5	600.9
35°	537.0	542.6	557.4	575.0	580.6
37.5°	516.7	520.4	536.1	550.9	556.5
40°	495.4	498.2	512.0	526.9	530.6
42.5°	472.2	474.1	487.0	500.0	500.9
45°	447.2	448.2	461.1	470.4	471.3
47.5°	422.2	421.3	432.4	438.9	439.8
50°	394.5	394.5	401.9	405.6	405.6
52.5°	366.7	364.8	368.5	371.3	368.5
55°	337.0	334.3	336.1	336.1	334.3
57.5°	307.4	301.9	302.8	300.9	296.3
60°	278.7	272.2	269.4	263.0	259.3
62.5°	249.1	241.7	236.1	228.7	227.8
65°	219.4	210.2	203.7	195.4	192.6
67.5°	190.7	182.4	173.2	163.9	158.3
70°	162.0	152.8	144.4	132.4	125.9
72.5°	136.1	127.8	117.6	103.7	99.1
75°	110.2	101.9	90.7	78.7	71.3
77.5°	85.2	78.7	66.7	56.5	55.6
80°	65.7	58.3	44.4	41.7	41.7
82.5°	42.6	38.0	31.5	29.6	29.6
85°	25.9	20.4	18.5	18.5	18.5
87.5°	10.2	9.3	9.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)