

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: P229402

Luminaire Tested: **14ALNG-LD5-40-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36088)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14ALNG-LD5-40-UNV-L840-CD1-SVPD1-U  
Description: METALUX 1X4 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR  
Light Source: (84)4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3974.0 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.29  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

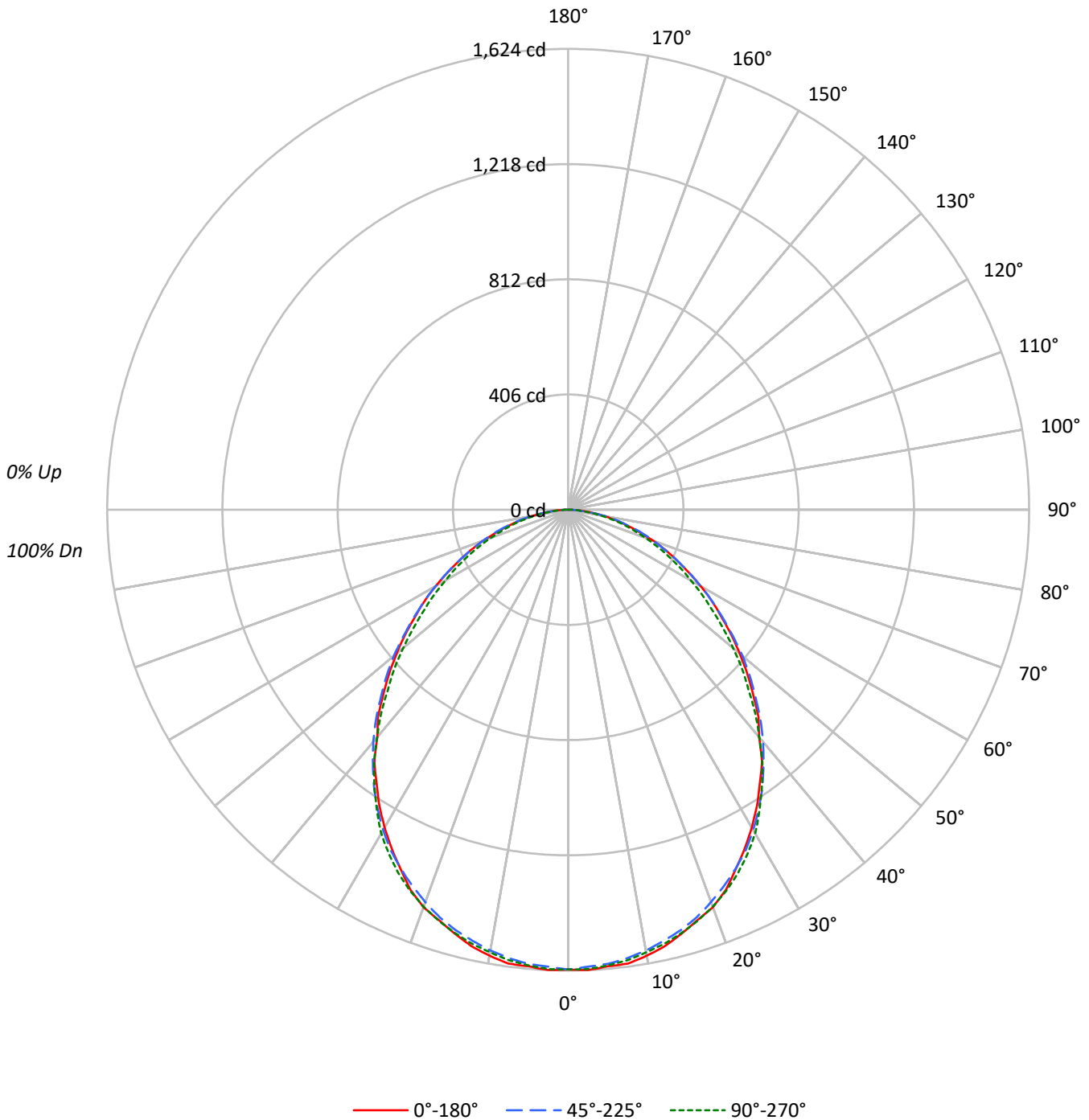
Input Watts (W): 40.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P229402

CATALOG NUMBER: 14ALNG-LD5-40-UNV-L840-CD1-SVPD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P229402

CATALOG NUMBER: 14ALNG-LD5-40-UNV-L840-CD1-SVPD1-U

**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	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53
5	78	65	56	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°	5459	5459	5459
5°	5463	5434	5451
10°	5461	5396	5419
15°	5392	5350	5387
20°	5344	5276	5338
25°	5194	5187	5258
30°	5031	5072	5125
35°	4842	4906	4892
40°	4599	4698	4607
45°	4388	4446	4281
50°	4138	4202	3975
55°	3874	3905	3651
60°	3640	3628	3372
65°	3368	3368	3119
70°	3121	3121	2848
75°	2794	2885	2614
80°	2486	2587	2251
85°	2142	1875	1674



TEST NUMBER: P229402

CATALOG NUMBER: 14ALNG-LD5-40-UNV-L840-CD1-SVPD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.1	3.9
10°-20°	434.8	10.9
20°-30°	644.7	16.2
30°-40°	741.9	18.7
40°-50°	712.1	17.9
50°-60°	586.8	14.8
60°-70°	412.7	10.4
70°-80°	228.2	5.7
80°-90°	59.7	1.5
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°	1232.6	31.0
0°-40°	1974.5	49.7
0°-60°	3273.4	82.4
0°-90°	3974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3974.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1615	1612	1606	1613	1612	154
15°	1546	1546	1534	1544	1544	436
25°	1397	1386	1395	1412	1414	644
35°	1177	1177	1193	1198	1189	736
45°	921	930	933	917	898	711
55°	660	672	665	639	621	592
65°	422	429	422	400	391	420
75°	215	223	222	204	201	229
85°	55	57	48	43	43	63
90°	0	0	0	0	0	



TEST NUMBER: P229402

CATALOG NUMBER: 14ALNG-LD5-40-UNV-L840-CD1-SVPD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1620.2	1620.2	1620.2	1620.2	1620.2
2.5°	1623.7	1618.5	1611.6	1620.2	1620.2
5°	1615.0	1611.6	1606.4	1613.3	1611.6
7.5°	1613.3	1602.9	1594.3	1602.9	1601.2
10°	1596.0	1592.5	1577.0	1585.6	1583.9
12.5°	1575.2	1571.8	1556.2	1566.6	1566.6
15°	1545.8	1545.8	1533.7	1544.1	1544.1
17.5°	1516.4	1514.6	1506.0	1518.1	1518.1
20°	1490.4	1478.3	1471.4	1488.7	1488.7
22.5°	1450.6	1435.0	1435.0	1455.8	1454.1
25°	1396.9	1386.5	1395.2	1412.5	1414.2
27.5°	1346.7	1341.5	1353.7	1369.2	1367.5
30°	1293.1	1287.9	1303.5	1317.3	1317.3
32.5°	1237.7	1234.2	1249.8	1261.9	1255.0
35°	1177.1	1177.1	1192.7	1197.9	1189.2
37.5°	1121.7	1120.0	1130.4	1132.1	1123.4
40°	1045.5	1057.7	1068.0	1061.1	1047.3
42.5°	991.9	995.3	1002.3	988.4	976.3
45°	920.9	929.6	933.0	917.4	898.4
47.5°	855.1	865.5	867.2	844.7	830.9
50°	789.3	801.5	801.5	773.8	758.2
52.5°	723.6	735.7	730.5	709.7	688.9
55°	659.5	671.6	664.7	638.7	621.4
57.5°	600.7	609.3	602.4	578.2	560.9
60°	540.1	547.0	538.3	515.8	500.3
62.5°	477.8	486.4	481.2	458.7	446.6
65°	422.4	429.3	422.4	399.9	391.2
67.5°	370.4	372.2	368.7	351.4	339.3
70°	316.8	320.2	316.8	301.2	289.1
72.5°	263.1	268.3	271.8	254.5	242.3
75°	214.6	223.3	221.6	204.3	200.8
77.5°	169.6	180.0	176.6	161.0	157.5
80°	128.1	136.8	133.3	119.4	116.0
82.5°	88.3	95.2	88.3	81.4	77.9
85°	55.4	57.1	48.5	43.3	43.3
87.5°	24.2	20.8	17.3	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)