

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: P229352

Luminaire Tested: **22ALNG-LD5-20-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36080)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22ALNG-LD5-20-UNV-L840-CD1-U  
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS  
Light Source: (126)4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2086.0 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.31  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

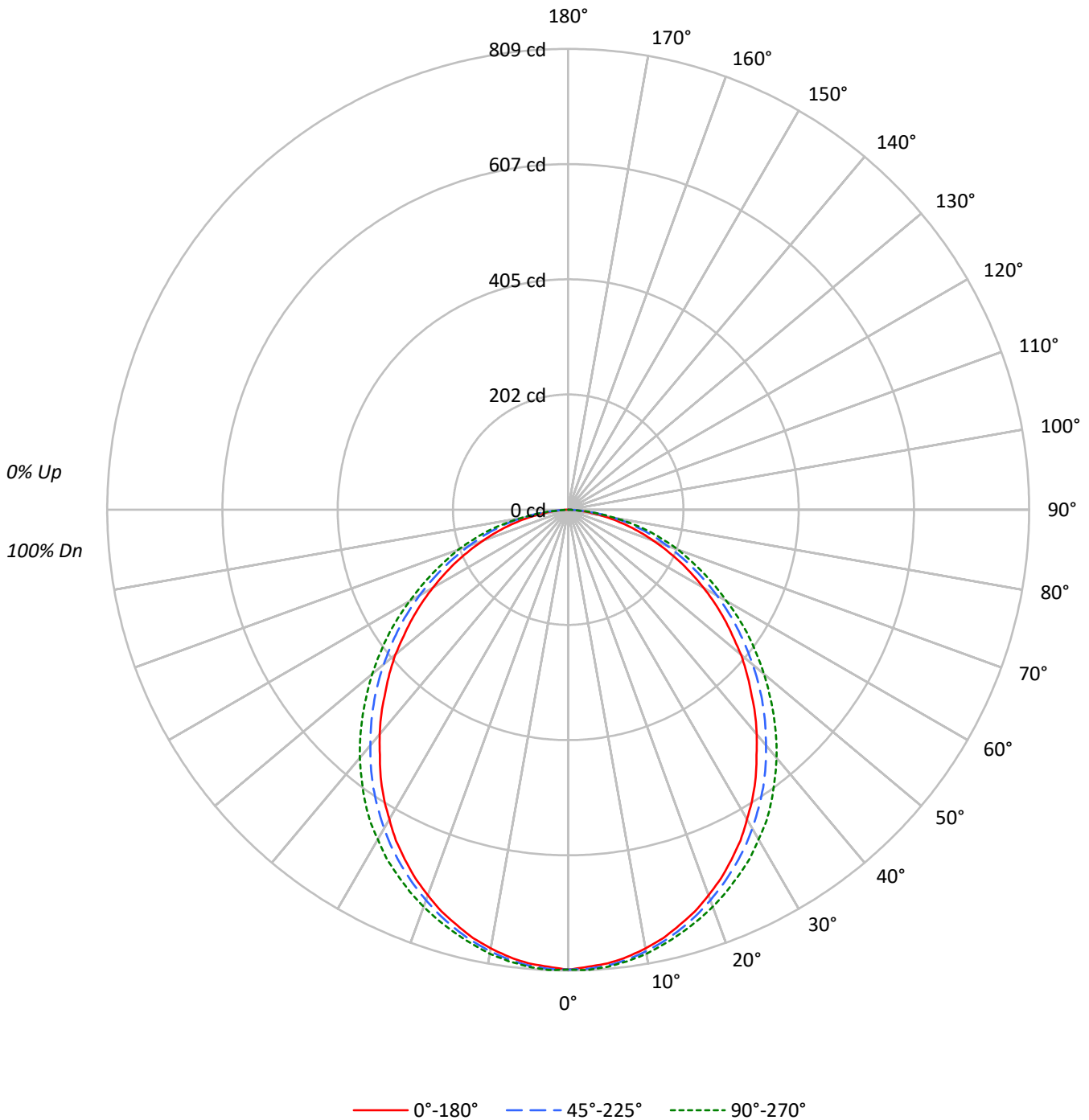
Input Watts (W): 16.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P229352

CATALOG NUMBER: 22ALNG-LD5-20-UNV-L840-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P229352

CATALOG NUMBER: 22ALNG-LD5-20-UNV-L840-CD1-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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2586	2586	2586
5°	2570	2582	2588
10°	2543	2560	2574
15°	2503	2528	2550
20°	2455	2487	2528
25°	2395	2441	2502
30°	2321	2390	2471
35°	2243	2331	2433
40°	2152	2257	2379
45°	2055	2187	2310
50°	1971	2104	2236
55°	1867	2021	2157
60°	1755	1932	2058
65°	1636	1832	1977
70°	1487	1732	1920
75°	1321	1639	1820
80°	1097	1486	1512
85°	860	999	911



TEST NUMBER: P229352

CATALOG NUMBER: 22ALNG-LD5-20-UNV-L840-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	3.6
10°-20°	214.9	10.3
20°-30°	318.7	15.3
30°-40°	373.0	17.9
40°-50°	372.1	17.8
50°-60°	322.7	15.5
60°-70°	238.0	11.4
70°-80°	137.2	6.6
80°-90°	33.4	1.6
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°	609.7	29.2
0°-40°	982.7	47.1
0°-60°	1677.5	80.4
0°-90°	2086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2086.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	799	800	803	805	805	76
15°	755	757	762	768	769	213
25°	678	680	691	704	708	312
35°	574	578	596	615	622	358
45°	454	462	483	502	510	351
55°	334	342	362	378	386	299
65°	216	226	242	253	261	214
75°	107	116	132	144	147	114
85°	23	28	27	27	25	28
90°	0	0	0	0	0	



TEST NUMBER: P229352

CATALOG NUMBER: 22ALNG-LD5-20-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	807.4	807.4	807.4	807.4	807.4
2.5°	803.2	804.1	806.5	808.3	808.8
5°	799.4	800.4	803.2	804.6	805.1
7.5°	792.0	794.3	796.6	799.0	799.4
10°	782.1	784.5	787.3	790.1	791.5
12.5°	770.4	771.3	776.0	779.3	780.7
15°	755.0	756.8	762.4	768.1	769.0
17.5°	739.5	741.8	747.0	753.6	755.9
20°	720.3	722.6	729.7	738.1	741.8
22.5°	700.6	702.5	710.9	721.2	725.9
25°	677.7	680.5	690.8	703.9	708.1
27.5°	654.7	657.1	669.7	684.2	690.3
30°	627.6	632.7	646.3	662.7	668.3
32.5°	601.8	606.0	621.5	640.2	647.7
35°	573.7	577.9	596.2	614.9	622.4
37.5°	542.8	550.3	569.0	588.7	595.7
40°	514.7	521.7	540.0	560.6	569.0
42.5°	485.2	490.8	511.9	532.0	540.0
45°	453.8	461.8	482.9	502.1	510.0
47.5°	425.2	432.7	453.3	471.6	479.1
50°	395.7	402.8	422.4	442.1	448.7
52.5°	363.4	372.8	392.0	410.3	417.3
55°	334.4	342.4	362.0	378.4	386.4
57.5°	304.4	312.4	332.0	346.1	354.1
60°	274.0	284.3	301.6	316.1	321.3
62.5°	245.4	252.4	271.2	284.3	290.8
65°	215.9	225.7	241.7	253.4	260.9
67.5°	186.9	197.6	213.1	226.2	231.4
70°	158.8	169.5	185.0	197.2	205.1
72.5°	132.5	142.8	158.8	170.5	175.2
75°	106.8	116.1	132.5	144.2	147.1
77.5°	82.4	92.7	108.2	115.2	116.1
80°	59.5	69.8	80.6	84.3	82.0
82.5°	40.3	47.3	54.8	53.9	54.8
85°	23.4	27.6	27.2	26.7	24.8
87.5°	8.9	9.8	7.5	5.6	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)