

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: P178995

Luminaire Tested: **22ALNG-LD4-31-UNV-EL7W-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P178995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD4-31-UNV-EL7W-L835-CD1-U
Description: METALUX ARCLINE 2X2 TROFFER LUMINAIRE

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

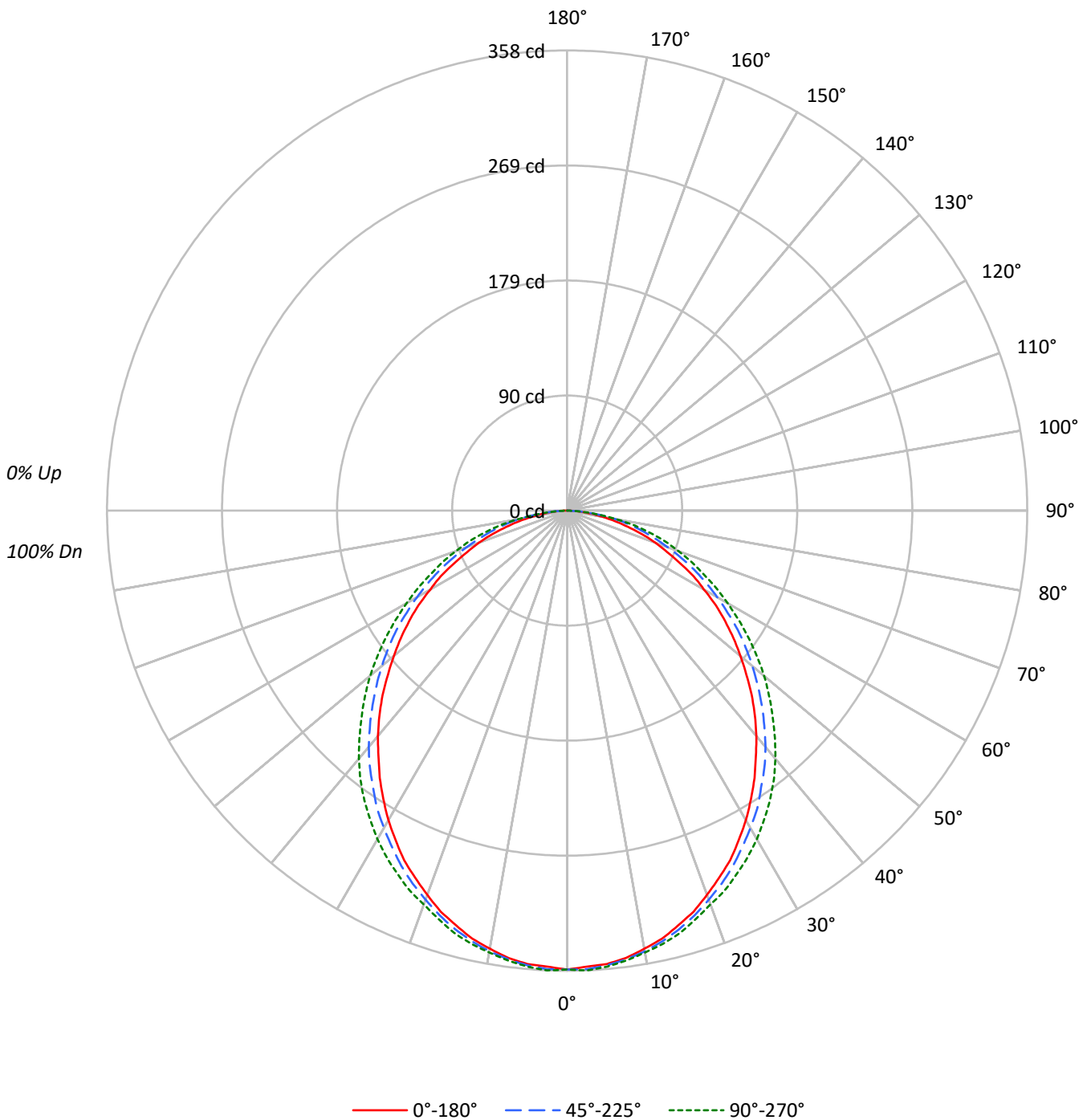
Lumens per Lamp: N/A
Luminaire Lumens: 929.0 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.27')
CIE Type: Direct

Input Watts (W): 6.2
Input Voltage (V): NR
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: P178995

CATALOG NUMBER: 22ALNG-LD4-31-UNV-EL7W-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P178995

CATALOG NUMBER: 22ALNG-LD4-31-UNV-EL7W-L835-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	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	59	52	47	57	51	46	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	961	961	961
5°	945	943	951
10°	924	920	932
15°	898	893	914
20°	868	862	890
25°	838	832	872
30°	801	798	850
35°	762	762	825
40°	723	727	795
45°	681	684	758
50°	635	641	721
55°	590	597	677
60°	536	546	628
65°	479	492	577
70°	419	428	528
75°	338	364	463
80°	245	282	342
85°	133	136	158



TEST NUMBER: P178995

CATALOG NUMBER: 22ALNG-LD4-31-UNV-EL7W-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	3.6
10°-20°	95.0	10.2
20°-30°	140.7	15.1
30°-40°	165.1	17.8
40°-50°	165.2	17.8
50°-60°	144.2	15.5
60°-70°	107.0	11.5
70°-80°	62.4	6.7
80°-90°	15.9	1.7
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°	269.3	29.0
0°-40°	434.3	46.8
0°-60°	743.7	80.1
0°-90°	929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	357	357	357	357	357	
5°	354	354	355	356	356	34
15°	334	335	337	339	340	94
25°	300	301	305	310	312	138
35°	254	256	263	272	275	159
45°	203	205	214	222	226	156
55°	150	153	162	169	172	134
65°	97	101	109	114	117	96
75°	49	53	60	65	67	52
85°	11	13	14	13	13	13
90°	0	0	0	0	0	



TEST NUMBER: P178995

CATALOG NUMBER: 22ALNG-LD4-31-UNV-EL7W-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	357.1	357.1	357.1	357.1	357.1
2.5°	355.1	356.1	357.1	357.1	358.1
5°	354.1	354.1	355.1	356.1	356.1
7.5°	351.1	351.1	352.1	353.1	353.1
10°	346.1	346.1	348.1	349.1	349.1
12.5°	341.1	342.1	343.1	345.1	345.1
15°	334.1	335.1	337.1	339.1	340.1
17.5°	327.1	327.1	330.1	332.1	333.1
20°	318.1	319.1	322.1	325.1	326.1
22.5°	309.1	310.1	314.1	318.1	320.1
25°	300.1	301.1	305.1	310.1	312.1
27.5°	289.1	291.1	295.1	301.1	304.1
30°	278.1	280.1	285.1	292.1	295.1
32.5°	266.1	269.1	275.1	282.1	285.1
35°	254.1	256.1	263.1	272.1	275.1
37.5°	241.1	244.1	252.1	260.1	264.1
40°	229.1	231.1	240.1	248.1	252.1
42.5°	216.1	218.1	227.1	235.1	239.1
45°	203.1	205.1	214.1	222.1	226.1
47.5°	189.1	192.1	201.1	210.1	213.1
50°	176.1	180.1	188.1	196.1	200.1
52.5°	163.1	166.1	175.1	183.1	186.1
55°	150.1	153.1	162.1	169.1	172.1
57.5°	137.1	140.1	148.1	155.1	158.1
60°	123.0	126.0	135.0	141.1	144.1
62.5°	111.0	114.0	122.0	127.0	131.0
65°	97.0	101.0	109.0	114.0	117.0
67.5°	84.0	89.0	96.0	102.0	105.0
70°	73.0	77.0	83.0	89.0	92.0
72.5°	61.0	65.0	71.0	77.0	80.0
75°	49.0	53.0	60.0	65.0	67.0
77.5°	38.0	42.0	49.0	53.0	54.0
80°	28.0	32.0	38.0	39.0	39.0
82.5°	19.0	22.0	25.0	25.0	25.0
85°	11.0	13.0	14.0	13.0	13.0
87.5°	5.0	5.0	4.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)