

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: P166469

Luminaire Tested: **22ALNG-LD4-31-UNV-L830-CD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P166469
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD4-31-UNV-L830-CD1
Description: METALUX ARCLINE 2X2 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)
Light Source: -
Ballast/Driver: -

Summary

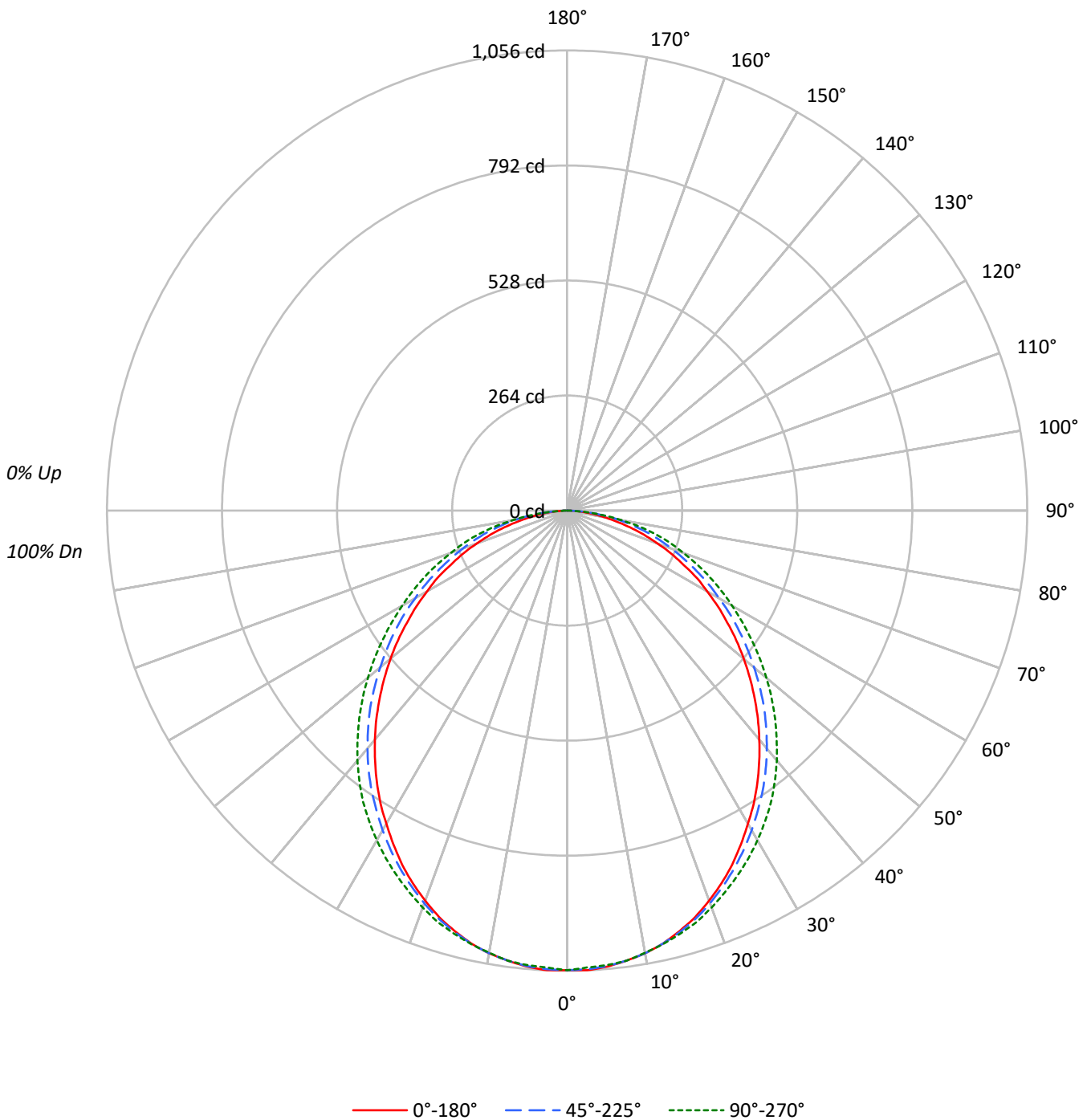
Lumens per Lamp: N/A
Luminaire Lumens: 2785.8 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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

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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	104	100	96	106	102	98	94	98	94	91		94	91	89		90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70	65	61	59
4	83	71	62	56	81	70	61	55	67	60	54		65	59	54		63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41		53	46	41		51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37		48	41	36		47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33		44	38	33		43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3090	3090	3090
5°	3091	3087	3079
10°	3070	3070	3066
15°	3029	3036	3048
20°	2970	2990	3022
25°	2898	2931	2989
30°	2809	2865	2956
35°	2723	2801	2919
40°	2624	2727	2863
45°	2521	2647	2795
50°	2412	2552	2720
55°	2293	2462	2638
60°	2175	2362	2563
65°	2042	2272	2502
70°	1890	2185	2425
75°	1689	2108	2382
80°	1441	2001	2131
85°	1156	1631	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	3.6
10°-20°	282.4	10.1
20°-30°	418.4	15.0
30°-40°	491.2	17.6
40°-50°	493.2	17.7
50°-60°	431.2	15.5
60°-70°	324.1	11.6
70°-80°	192.9	6.9
80°-90°	52.9	1.9
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°	800.3	28.7
0°-40°	1291.5	46.4
0°-60°	2215.9	79.5
0°-90°	2785.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2785.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1051	1051	1050	1048	1047	100
15°	999	1000	1001	1005	1005	281
25°	896	898	907	920	924	412
35°	761	766	783	806	816	476
45°	608	616	639	663	675	469
55°	449	458	482	505	516	402
65°	295	304	328	348	361	293
75°	149	162	186	203	210	159
85°	34	42	48	48	47	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.7	1054.7	1054.7	1054.7	1054.7
2.5°	1055.9	1054.7	1053.4	1050.8	1049.5
5°	1050.8	1050.8	1049.5	1048.2	1047.0
7.5°	1041.9	1043.2	1041.9	1041.9	1041.9
10°	1031.7	1032.9	1031.7	1031.7	1030.4
12.5°	1017.7	1017.7	1017.7	1018.9	1018.9
15°	998.6	999.8	1001.0	1004.9	1004.9
17.5°	978.1	978.1	981.9	988.3	989.6
20°	952.6	953.8	959.0	966.6	969.2
22.5°	925.8	927.1	933.5	943.6	947.5
25°	896.5	897.7	906.7	919.5	924.5
27.5°	863.3	865.9	877.3	894.0	900.3
30°	830.1	834.0	846.8	865.9	873.6
32.5°	797.0	800.8	814.9	836.6	845.5
35°	761.4	766.4	783.0	806.0	816.2
37.5°	724.4	729.4	748.6	772.8	783.0
40°	686.1	692.5	712.9	737.1	748.6
42.5°	647.9	654.2	675.9	700.1	711.6
45°	608.3	615.9	638.9	663.1	674.6
47.5°	568.8	576.4	599.4	623.6	636.4
50°	529.2	536.8	559.8	584.0	596.8
52.5°	489.7	497.4	521.6	544.6	557.3
55°	448.9	457.8	482.0	505.0	516.5
57.5°	410.7	418.3	443.8	465.5	477.0
60°	371.1	380.0	403.0	424.6	437.4
62.5°	336.6	340.5	366.0	386.4	399.2
65°	294.6	303.5	327.7	348.1	360.9
67.5°	258.9	266.5	290.7	312.4	322.6
70°	220.6	230.9	255.0	274.2	283.1
72.5°	184.9	195.1	220.6	239.8	248.7
75°	149.2	162.0	186.2	202.8	210.4
77.5°	116.1	130.0	151.8	167.0	170.9
80°	85.4	98.2	118.6	125.0	126.3
82.5°	58.7	70.2	82.9	85.4	85.4
85°	34.4	42.1	48.5	48.5	47.2
87.5°	15.3	17.8	16.6	15.3	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)