

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: P166476

Luminaire Tested: **22ALNG-LD4-35-UNV-L835-CD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P166476
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD4-35-UNV-L835-CD1
Description: METALUX ARCLINE 2X2 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)
Light Source: -
Ballast/Driver: -

Summary

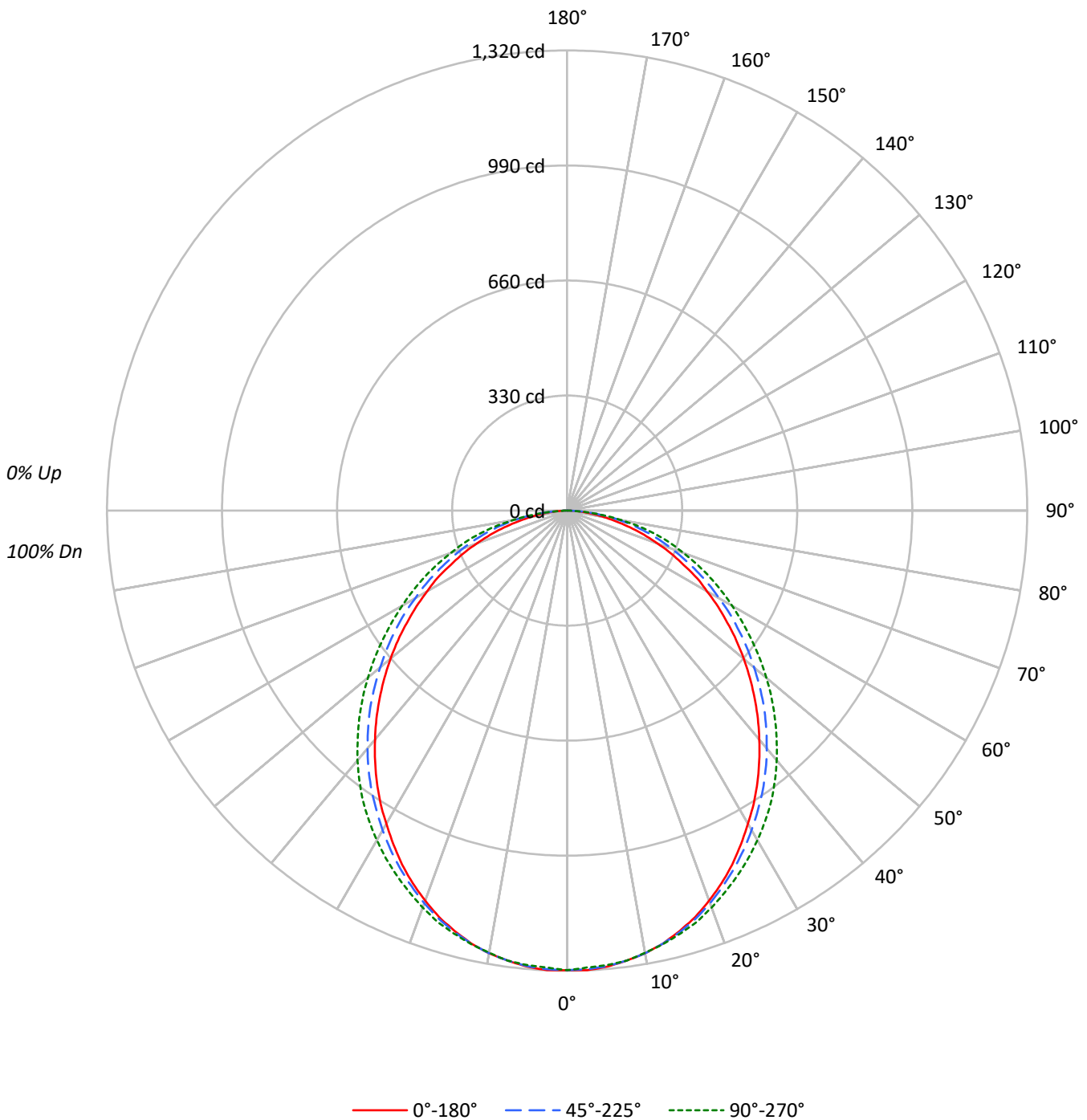
Lumens per Lamp: N/A
Luminaire Lumens: 3481.9 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 34.5
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°	3862	3862	3862
5°	3863	3858	3849
10°	3837	3837	3832
15°	3786	3795	3810
20°	3712	3737	3777
25°	3623	3664	3736
30°	3511	3581	3694
35°	3404	3501	3649
40°	3280	3408	3579
45°	3150	3309	3494
50°	3015	3189	3400
55°	2866	3078	3297
60°	2718	2952	3204
65°	2553	2840	3128
70°	2362	2731	3031
75°	2111	2634	2977
80°	1802	2501	2663
85°	1446	2037	1983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	3.6
10°-20°	352.9	10.1
20°-30°	522.9	15.0
30°-40°	613.9	17.6
40°-50°	616.4	17.7
50°-60°	538.9	15.5
60°-70°	405.1	11.6
70°-80°	241.1	6.9
80°-90°	66.1	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°	1000.3	28.7
0°-40°	1614.2	46.4
0°-60°	2769.6	79.5
0°-90°	3481.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3481.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1318	1318	1318	1318	1318	
5°	1313	1313	1312	1310	1309	125
15°	1248	1250	1251	1256	1256	352
25°	1120	1122	1133	1149	1156	515
35°	952	958	979	1007	1020	595
45°	760	770	798	829	843	587
55°	561	572	602	631	646	503
65°	368	379	410	435	451	367
75°	186	202	233	253	263	199
85°	43	53	61	61	59	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1319.7	1318.2	1316.6	1313.4	1311.8
5°	1313.4	1313.4	1311.8	1310.2	1308.6
7.5°	1302.2	1303.8	1302.2	1302.2	1302.2
10°	1289.5	1291.1	1289.5	1289.5	1287.9
12.5°	1271.9	1271.9	1271.9	1273.5	1273.5
15°	1248.0	1249.6	1251.2	1256.0	1256.0
17.5°	1222.5	1222.5	1227.3	1235.3	1236.9
20°	1190.6	1192.2	1198.6	1208.2	1211.4
22.5°	1157.2	1158.8	1166.7	1179.5	1184.3
25°	1120.5	1122.1	1133.3	1149.2	1155.6
27.5°	1079.1	1082.3	1096.6	1117.3	1125.3
30°	1037.6	1042.4	1058.3	1082.3	1091.8
32.5°	996.2	1001.0	1018.5	1045.6	1056.8
35°	951.6	957.9	978.7	1007.3	1020.1
37.5°	905.3	911.7	935.6	965.9	978.7
40°	857.5	865.5	891.0	921.3	935.6
42.5°	809.7	817.7	844.8	875.1	889.4
45°	760.3	769.9	798.5	828.8	843.2
47.5°	710.9	720.4	749.1	779.4	795.4
50°	661.5	671.0	699.7	730.0	745.9
52.5°	612.1	621.6	651.9	680.6	696.5
55°	561.1	572.2	602.5	631.2	645.5
57.5°	513.2	522.8	554.7	581.8	596.1
60°	463.8	475.0	503.7	530.8	546.7
62.5°	420.8	425.6	457.4	483.0	498.9
65°	368.2	379.3	409.6	435.1	451.1
67.5°	323.6	333.1	363.4	390.5	403.3
70°	275.7	288.5	318.8	342.7	353.8
72.5°	231.1	243.9	275.7	299.7	310.8
75°	186.5	202.4	232.7	253.4	263.0
77.5°	145.0	162.6	189.7	208.8	213.6
80°	106.8	122.7	148.2	156.2	157.8
82.5°	73.3	87.7	103.6	106.8	106.8
85°	43.0	52.6	60.6	60.6	59.0
87.5°	19.1	22.3	20.7	19.1	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)