

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: P166520

Luminaire Tested: **24ALNG-LD4-80-UNV-L835-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166520
Test Lab: INNOVATION CENTER-P2
Test Date: 03/08/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ALNG-LD4-80-UNV-L835-CD1-U
Description: METALUX ARCLINE 2X4 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25830)
Light Source: -
Ballast/Driver: -

Summary

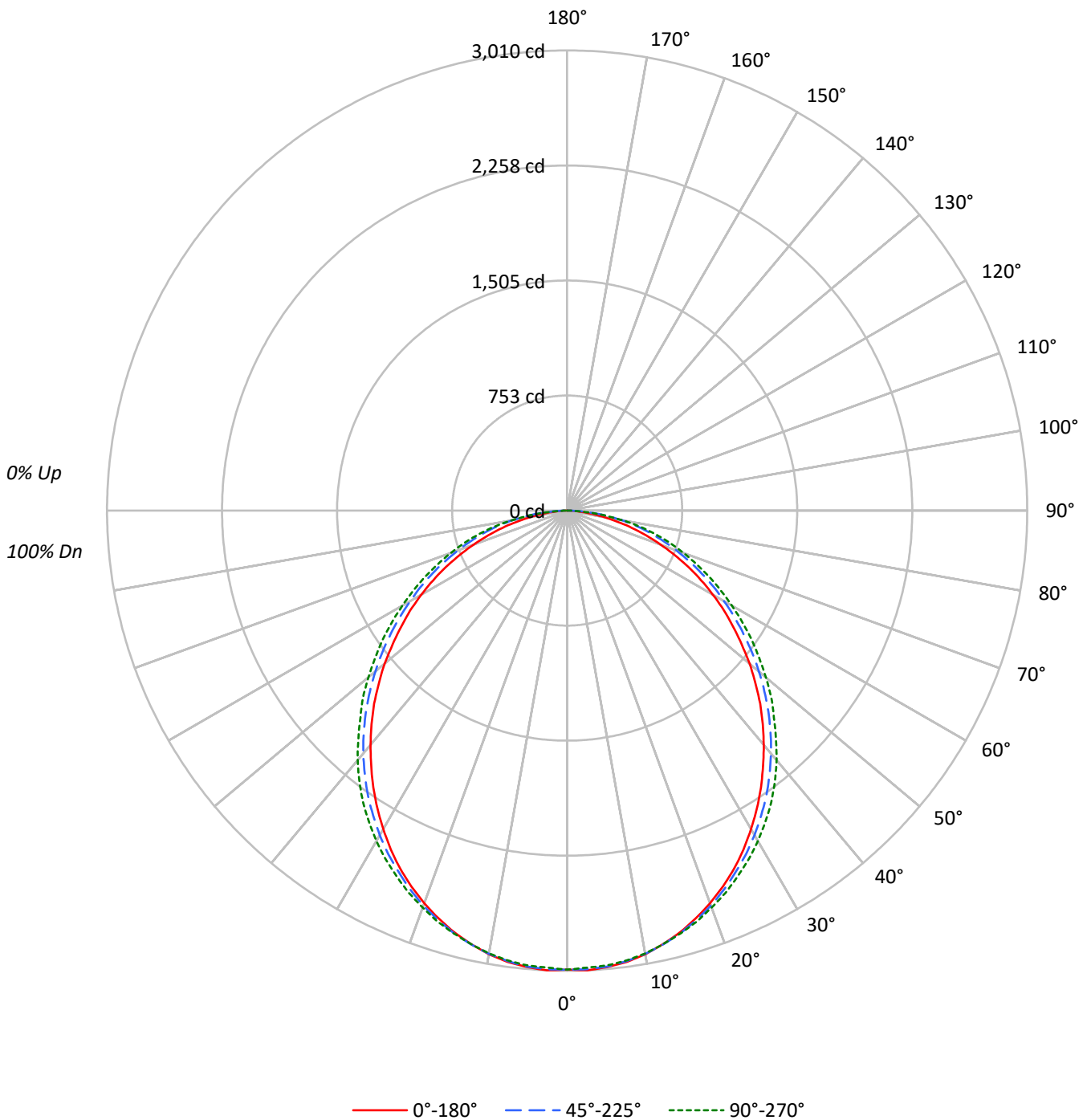
Lumens per Lamp: N/A
Luminaire Lumens: 8070.3 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 82.2
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	97	94	91		94	91	88		90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75		82	78	74		79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63		72	67	62		70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53	50
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56	50	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	29		41	34	29		40	34	29	27
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°	4305	4305	4305
5°	4314	4310	4299
10°	4290	4286	4282
15°	4240	4248	4251
20°	4171	4195	4216
25°	4089	4127	4177
30°	3983	4058	4133
35°	3871	3978	4076
40°	3745	3885	3989
45°	3620	3776	3879
50°	3477	3655	3786
55°	3317	3523	3683
60°	3155	3400	3568
65°	2974	3290	3480
70°	2736	3183	3395
75°	2435	3100	3321
80°	2024	2992	3036
85°	1491	2499	2279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.8	3.5
10°-20°	805.5	10.0
20°-30°	1200.9	14.9
30°-40°	1416.8	17.6
40°-50°	1428.9	17.7
50°-60°	1255.3	15.6
60°-70°	949.7	11.8
70°-80°	569.8	7.1
80°-90°	159.6	2.0
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°	2290.2	28.4
0°-40°	3707.0	45.9
0°-60°	6391.2	79.2
0°-90°	8070.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8070.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3003	3003	3003	3003	3003	
5°	2997	2984	2995	2989	2987	285
15°	2856	2845	2861	2864	2864	805
25°	2584	2582	2608	2624	2640	1189
35°	2211	2217	2273	2307	2328	1382
45°	1785	1798	1862	1900	1913	1376
55°	1327	1356	1409	1449	1473	1188
65°	876	906	970	1007	1026	867
75°	440	490	560	592	599	467
85°	91	136	152	144	138	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3002.6	3002.6	3002.6	3002.6	3002.6
2.5°	3010.5	2994.6	3002.6	3002.6	2991.9
5°	2997.2	2983.9	2994.6	2989.2	2986.6
7.5°	2978.6	2962.6	2973.2	2970.6	2967.9
10°	2946.6	2930.6	2943.9	2941.3	2941.3
12.5°	2904.0	2893.3	2906.6	2904.0	2904.0
15°	2856.0	2845.4	2861.4	2864.0	2864.0
17.5°	2797.4	2789.4	2808.1	2813.4	2818.7
20°	2733.5	2728.1	2749.5	2752.1	2762.8
22.5°	2661.5	2656.2	2682.8	2693.5	2706.8
25°	2584.3	2581.6	2608.3	2624.2	2640.2
27.5°	2499.0	2499.0	2533.7	2555.0	2571.0
30°	2405.8	2411.1	2451.1	2477.7	2496.4
32.5°	2309.9	2317.9	2363.1	2395.1	2413.8
35°	2211.3	2216.6	2272.6	2307.2	2328.5
37.5°	2104.7	2118.0	2174.0	2211.3	2232.6
40°	2000.8	2014.1	2075.4	2110.0	2131.4
42.5°	1894.2	1907.6	1968.8	2008.8	2022.1
45°	1785.0	1798.3	1862.3	1899.6	1912.9
47.5°	1670.5	1691.8	1750.4	1787.7	1811.7
50°	1558.6	1577.2	1638.5	1675.8	1697.1
52.5°	1438.7	1465.3	1523.9	1561.2	1582.5
55°	1326.8	1356.1	1409.4	1449.3	1473.3
57.5°	1217.5	1241.5	1297.5	1337.4	1358.7
60°	1100.3	1129.6	1185.6	1222.9	1244.2
62.5°	988.4	1017.7	1079.0	1116.3	1134.9
65°	876.5	905.8	969.8	1007.1	1025.7
67.5°	762.0	796.6	863.2	900.5	916.5
70°	652.7	692.7	759.3	796.6	809.9
72.5°	543.5	588.8	658.1	692.7	706.0
75°	439.6	490.2	559.5	591.5	599.4
77.5°	338.4	394.3	460.9	487.5	490.2
80°	245.1	301.1	362.3	370.3	367.7
82.5°	159.9	218.5	258.4	250.4	250.4
85°	90.6	135.9	151.9	143.9	138.5
87.5°	40.0	58.6	53.3	45.3	42.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)