

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: P709989

Luminaire Tested: **24ARS-L3C3-NUV-5000K-MID**

Issue Date: 10/4/2023



Test Information

Test Method: LM-79-08
Report Number: P709989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/4/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ARS-L3C3-NUV-5000K-MID
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 5000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

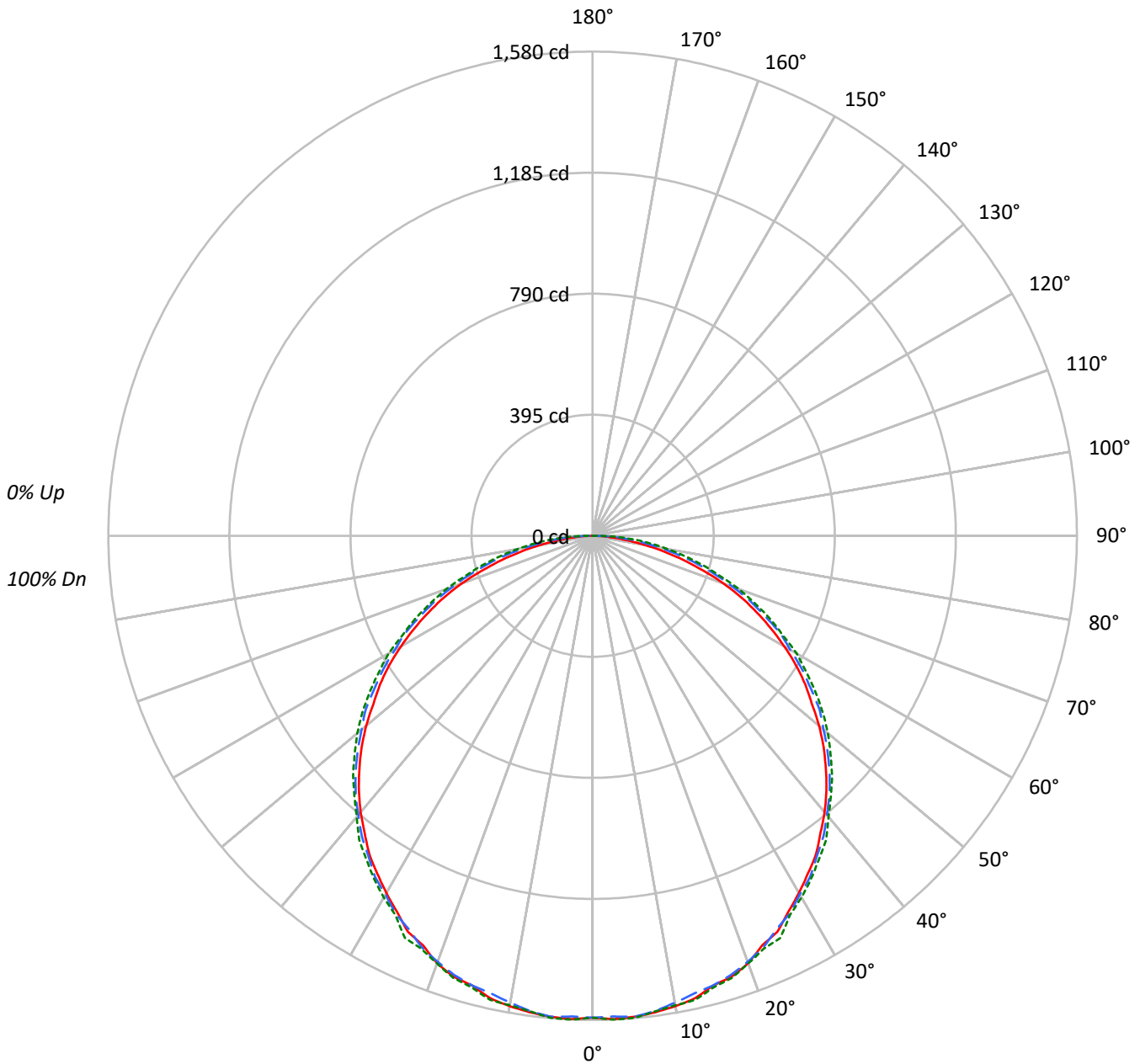
Lumens per Lamp: N/A
Luminaire Lumens: 4749.0 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P709989

CATALOG NUMBER: 24ARS-L3C3-NUV-5000K-MID

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	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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57			
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	55	49	44	42			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36			
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	28	26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2390	2390	2390
5°	2404	2404	2409
10°	2406	2388	2401
15°	2390	2390	2400
20°	2401	2392	2402
25°	2392	2377	2429
30°	2362	2372	2392
35°	2357	2366	2389
40°	2336	2359	2375
45°	2313	2350	2375
50°	2281	2325	2369
55°	2244	2301	2351
60°	2195	2265	2336
65°	2123	2233	2292
70°	2014	2159	2255
75°	1802	2071	2197
80°	1520	1932	2172
85°	1036	1913	2312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	3.1
10°-20°	430.7	9.1
20°-30°	657.4	13.8
30°-40°	799.4	16.8
40°-50°	842.2	17.7
50°-60°	776.6	16.4
60°-70°	611.5	12.9
70°-80°	366.9	7.7
80°-90°	114.8	2.4
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°	1237.6	26.1
0°-40°	2037.0	42.9
0°-60°	3655.8	77.0
0°-90°	4749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1576	1568	1576	1582	1579	150
15°	1519	1519	1519	1542	1525	431
25°	1426	1415	1418	1444	1448	654
35°	1270	1260	1275	1288	1288	793
45°	1076	1078	1093	1109	1105	830
55°	847	860	868	884	887	756
65°	590	609	621	636	637	583
75°	307	330	353	366	374	326
85°	59	80	110	132	133	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1572.5	1572.5	1572.5	1572.5	1572.5
2.5°	1579.0	1571.8	1569.9	1575.1	1580.3
5°	1575.7	1567.9	1575.7	1582.3	1579.0
7.5°	1568.5	1562.0	1564.0	1566.6	1565.3
10°	1558.7	1550.3	1547.0	1562.0	1555.5
12.5°	1545.7	1533.3	1530.0	1552.9	1550.9
15°	1518.9	1518.9	1518.9	1541.8	1525.4
17.5°	1508.5	1497.4	1502.6	1518.9	1512.4
20°	1484.3	1471.9	1479.1	1488.9	1485.0
22.5°	1446.4	1450.3	1454.3	1469.9	1458.8
25°	1426.2	1415.1	1417.7	1444.5	1448.4
27.5°	1383.1	1387.0	1390.3	1404.0	1394.8
30°	1345.9	1347.2	1351.7	1368.1	1362.8
32.5°	1307.3	1307.3	1320.4	1335.4	1326.9
35°	1270.1	1260.3	1275.3	1288.4	1287.7
37.5°	1221.8	1221.8	1236.8	1246.6	1251.2
40°	1177.4	1178.7	1189.1	1199.6	1197.0
42.5°	1129.1	1133.0	1144.1	1153.9	1150.6
45°	1076.2	1077.5	1093.1	1108.8	1104.9
47.5°	1022.0	1026.5	1039.6	1054.6	1052.7
50°	964.5	969.1	983.4	999.8	1001.7
52.5°	901.8	913.6	933.8	944.3	946.2
55°	847.0	860.0	868.5	884.2	887.4
57.5°	786.9	793.4	809.1	822.1	826.1
60°	722.2	728.1	745.1	764.0	768.6
62.5°	656.3	667.4	690.2	702.6	696.8
65°	590.3	608.6	621.0	636.0	637.3
67.5°	523.7	537.4	555.1	572.0	570.1
70°	453.2	464.3	485.8	500.2	507.4
72.5°	378.1	393.8	417.9	434.9	435.6
75°	306.9	329.8	352.6	366.3	374.2
77.5°	239.7	259.2	285.4	305.0	309.5
80°	173.7	193.3	220.7	239.0	248.1
82.5°	111.0	131.9	161.9	184.2	188.1
85°	59.4	80.3	109.7	131.9	132.6
87.5°	19.6	38.5	57.5	68.6	71.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)