

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: P709971

Luminaire Tested: **14ARS-L3C3-NUV-5000K-MID**

Issue Date: 10/4/2023



Test Information

Test Method: LM-79-08
Report Number: P709971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/4/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ARS-L3C3-NUV-5000K-MID
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 5000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

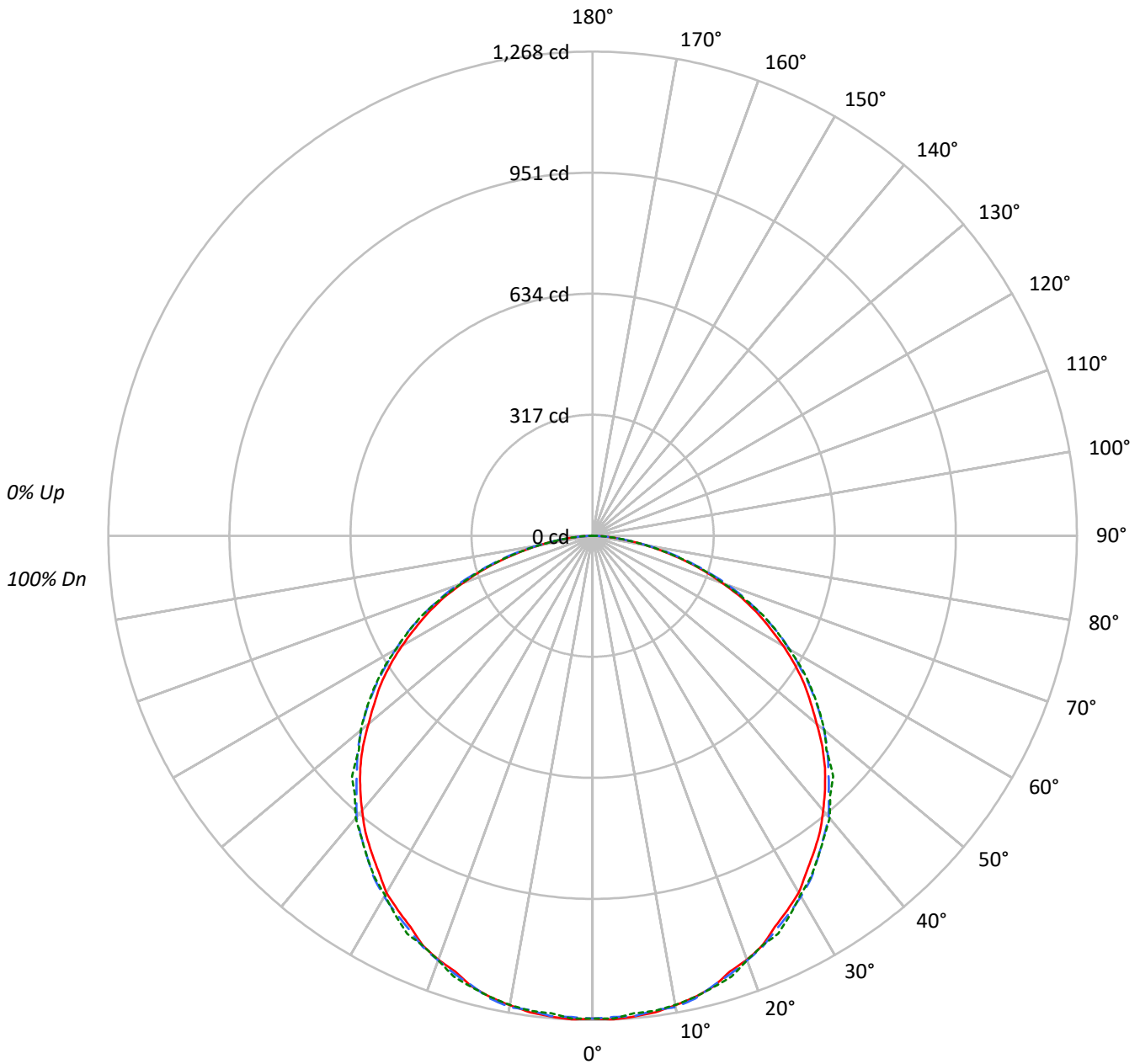
Lumens per Lamp: N/A
Luminaire Lumens: 3733.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4137	4137	4137
5°	4151	4147	4123
10°	4148	4165	4146
15°	4140	4132	4145
20°	4114	4120	4118
25°	4078	4107	4150
30°	4078	4123	4108
35°	4035	4108	4108
40°	4012	4108	4122
45°	3982	4040	4122
50°	3898	4026	4035
55°	3861	3977	3994
60°	3771	3902	3890
65°	3665	3789	3811
70°	3442	3612	3491
75°	3119	3263	3183
80°	2636	2712	2636
85°	1802	1907	1994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	3.2
10°-20°	345.0	9.2
20°-30°	524.8	14.1
30°-40°	641.0	17.2
40°-50°	673.5	18.0
50°-60°	618.7	16.6
60°-70°	478.9	12.8
70°-80°	268.5	7.2
80°-90°	63.0	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°	989.4	26.5
0°-40°	1630.4	43.7
0°-60°	2922.6	78.3
0°-90°	3733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1264	1250	1263	1260	1255	120
15°	1222	1223	1220	1226	1224	344
25°	1130	1132	1138	1143	1150	522
35°	1010	1015	1028	1031	1028	633
45°	860	865	873	878	891	662
55°	677	688	697	695	700	603
65°	473	480	489	489	492	467
75°	247	256	258	250	252	262
85°	48	49	51	51	53	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.3	1264.3	1264.3	1264.3	1264.3
2.5°	1267.7	1262.0	1261.4	1263.7	1265.4
5°	1263.7	1250.0	1262.6	1259.7	1255.1
7.5°	1258.6	1239.1	1252.8	1254.6	1254.6
10°	1248.3	1239.7	1253.4	1250.0	1247.7
12.5°	1237.4	1236.9	1241.4	1239.7	1237.4
15°	1222.0	1222.6	1219.7	1226.0	1223.7
17.5°	1196.3	1204.9	1202.6	1210.0	1210.0
20°	1181.5	1176.9	1183.2	1186.6	1182.6
22.5°	1161.5	1152.3	1164.3	1166.6	1161.5
25°	1129.5	1132.4	1137.5	1143.2	1149.5
27.5°	1104.9	1106.7	1114.7	1113.5	1119.2
30°	1079.3	1080.4	1091.2	1096.4	1087.2
32.5°	1042.7	1055.3	1064.4	1062.1	1061.5
35°	1010.2	1015.3	1028.4	1031.3	1028.4
37.5°	977.6	981.0	994.2	993.6	995.3
40°	939.3	946.2	961.6	956.5	965.0
42.5°	900.5	908.5	914.8	920.5	921.1
45°	860.5	865.1	873.1	878.2	890.8
47.5°	815.4	826.3	834.3	838.3	830.3
50°	765.8	784.0	790.9	794.9	792.6
52.5°	720.1	739.5	745.2	745.2	746.9
55°	676.7	687.5	697.2	694.9	700.1
57.5°	627.6	639.6	645.8	648.7	651.0
60°	576.2	592.7	596.2	595.0	594.4
62.5°	523.1	537.9	544.8	540.2	544.2
65°	473.4	479.7	489.4	489.4	492.2
67.5°	420.9	427.7	434.0	432.8	428.3
70°	359.8	369.5	377.5	370.0	364.9
72.5°	306.1	314.1	315.2	309.5	310.1
75°	246.7	256.4	258.1	249.5	251.8
77.5°	190.7	201.0	202.7	193.6	193.6
80°	139.9	146.8	143.9	139.9	139.9
82.5°	90.8	95.4	92.5	94.8	92.5
85°	48.0	49.1	50.8	51.4	53.1
87.5°	16.0	17.7	17.1	15.4	14.3
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)