

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: P709604

Luminaire Tested: **14ARS-L3C3-UNV-5000K-LOW**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ARS-L3C3-UNV-5000K-LOW
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 5000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

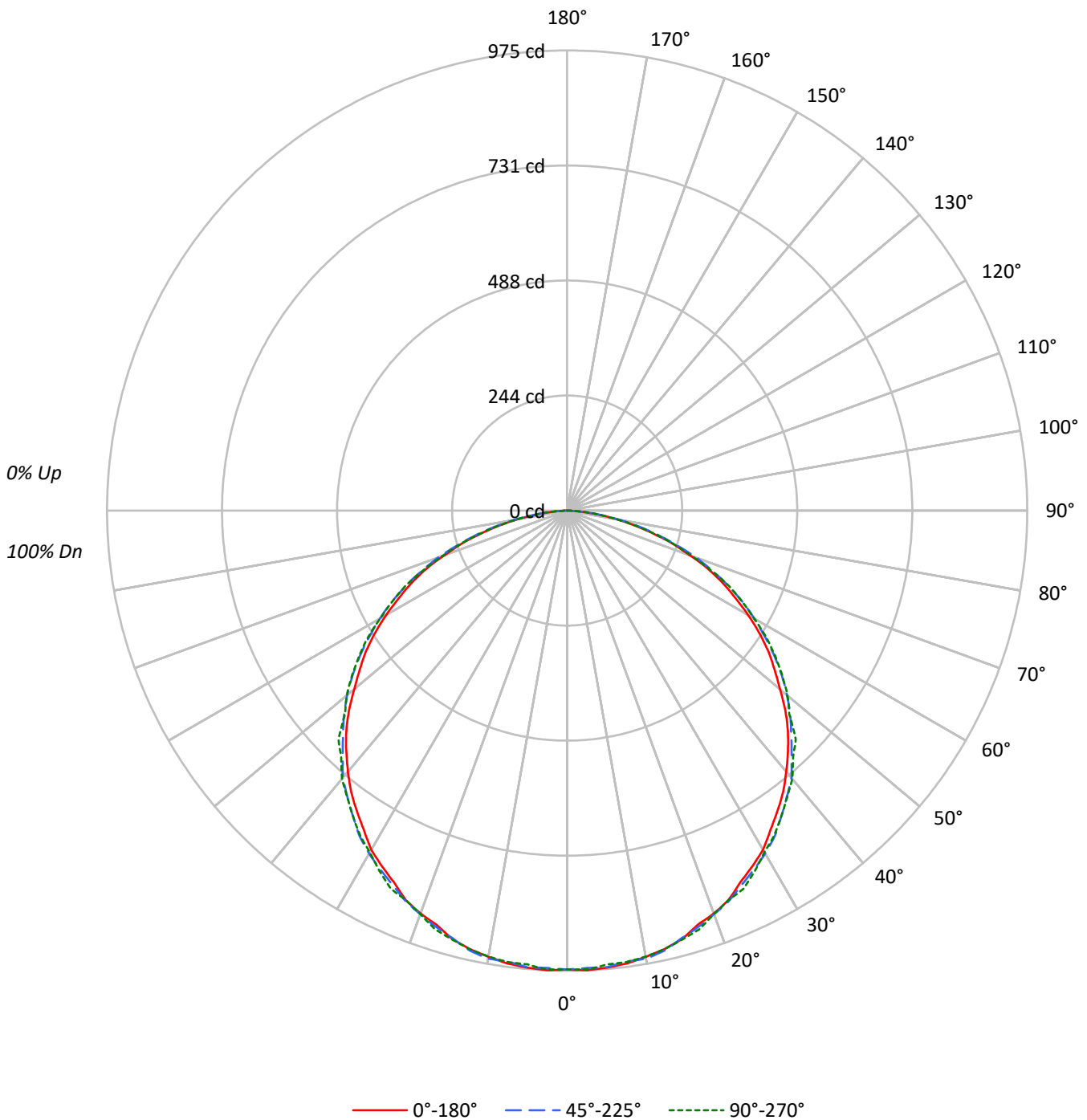
Lumens per Lamp: N/A
Luminaire Lumens: 2871.0 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3182	3182	3182
5°	3192	3189	3171
10°	3190	3203	3188
15°	3184	3178	3188
20°	3164	3169	3167
25°	3136	3158	3192
30°	3136	3171	3160
35°	3103	3160	3160
40°	3086	3159	3170
45°	3063	3107	3170
50°	2998	3097	3103
55°	2969	3059	3072
60°	2900	3001	2992
65°	2819	2914	2931
70°	2647	2777	2685
75°	2398	2510	2449
80°	2028	2086	2028
85°	1385	1468	1532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.2
10°-20°	265.3	9.2
20°-30°	403.6	14.1
30°-40°	493.0	17.2
40°-50°	518.0	18.0
50°-60°	475.8	16.6
60°-70°	368.3	12.8
70°-80°	206.5	7.2
80°-90°	48.5	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°	761.0	26.5
0°-40°	1253.9	43.7
0°-60°	2247.8	78.3
0°-90°	2871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	972	961	971	969	965	92
15°	940	940	938	943	941	265
25°	869	871	875	879	884	402
35°	777	781	791	793	791	487
45°	662	665	672	675	685	509
55°	520	529	536	534	538	464
65°	364	369	376	376	379	359
75°	190	197	198	192	194	201
85°	37	38	39	40	41	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.3	972.3	972.3	972.3	972.3
2.5°	975.0	970.6	970.1	971.9	973.2
5°	971.9	961.4	971.0	968.8	965.3
7.5°	967.9	953.0	963.5	964.9	964.9
10°	960.0	953.4	964.0	961.4	959.6
12.5°	951.7	951.2	954.8	953.4	951.7
15°	939.8	940.3	938.1	942.9	941.1
17.5°	920.1	926.7	924.9	930.6	930.6
20°	908.6	905.1	910.0	912.6	909.5
22.5°	893.3	886.3	895.5	897.2	893.3
25°	868.7	870.9	874.8	879.2	884.1
27.5°	849.8	851.1	857.3	856.4	860.8
30°	830.0	830.9	839.3	843.2	836.2
32.5°	801.9	811.6	818.6	816.9	816.4
35°	776.9	780.9	791.0	793.1	791.0
37.5°	751.9	754.5	764.6	764.2	765.5
40°	722.4	727.7	739.6	735.6	742.2
42.5°	692.6	698.7	703.6	707.9	708.4
45°	661.8	665.3	671.5	675.4	685.1
47.5°	627.1	635.5	641.6	644.7	638.6
50°	588.9	603.0	608.3	611.3	609.6
52.5°	553.8	568.7	573.1	573.1	574.4
55°	520.4	528.8	536.2	534.5	538.4
57.5°	482.7	491.9	496.7	498.9	500.7
60°	443.1	455.9	458.5	457.6	457.2
62.5°	402.3	413.7	419.0	415.5	418.5
65°	364.1	368.9	376.4	376.4	378.6
67.5°	323.7	328.9	333.8	332.9	329.4
70°	276.7	284.1	290.3	284.6	280.6
72.5°	235.4	241.5	242.4	238.0	238.5
75°	189.7	197.2	198.5	191.9	193.7
77.5°	146.7	154.6	155.9	148.9	148.9
80°	107.6	112.9	110.7	107.6	107.6
82.5°	69.8	73.3	71.1	72.9	71.1
85°	36.9	37.8	39.1	39.5	40.8
87.5°	12.3	13.6	13.2	11.9	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)