

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: P709598

Luminaire Tested: **14ARS-L3C3-UNV-3500K-LOW**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709598
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-3500K-LOW
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 3500K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

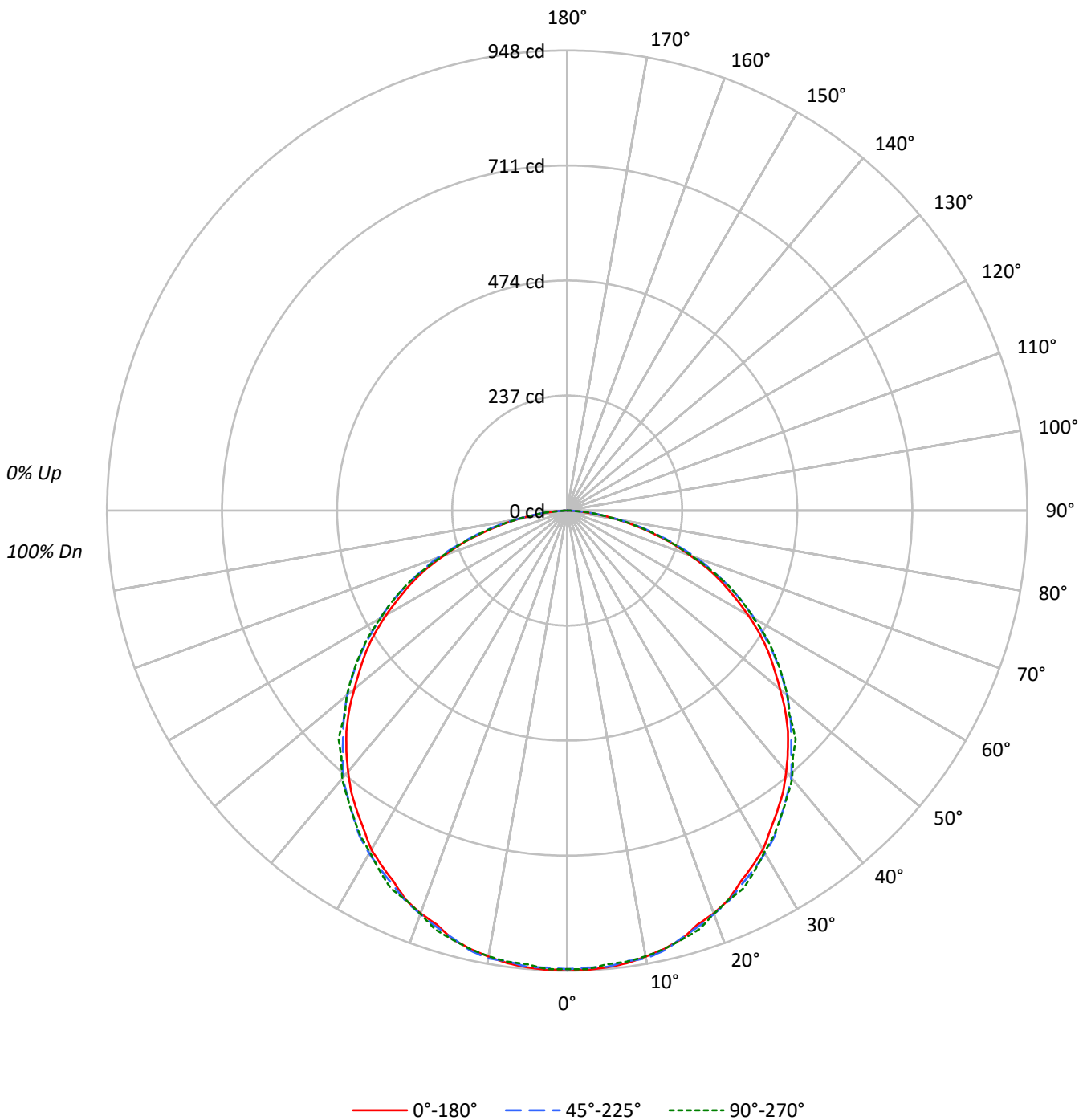
Lumens per Lamp: N/A
Luminaire Lumens: 2790.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 20.5
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°	3092	3092	3092
5°	3102	3099	3081
10°	3100	3113	3098
15°	3094	3088	3098
20°	3075	3079	3078
25°	3048	3070	3102
30°	3048	3082	3070
35°	3016	3070	3070
40°	2999	3070	3081
45°	2976	3020	3081
50°	2913	3009	3016
55°	2885	2973	2985
60°	2818	2916	2908
65°	2739	2832	2849
70°	2573	2699	2609
75°	2331	2439	2379
80°	1971	2026	1971
85°	1344	1427	1491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	3.2
10°-20°	257.8	9.2
20°-30°	392.2	14.1
30°-40°	479.0	17.2
40°-50°	503.4	18.0
50°-60°	462.4	16.6
60°-70°	357.9	12.8
70°-80°	200.7	7.2
80°-90°	47.1	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°	739.5	26.5
0°-40°	1218.5	43.7
0°-60°	2184.3	78.3
0°-90°	2790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	944	934	944	942	938	90
15°	913	914	912	916	915	257
25°	844	846	850	854	859	390
35°	755	759	769	771	769	473
45°	643	647	653	656	666	495
55°	506	514	521	519	523	451
65°	354	358	366	366	368	349
75°	184	192	193	186	188	196
85°	36	37	38	38	40	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.9	944.9	944.9	944.9	944.9
2.5°	947.5	943.2	942.8	944.5	945.8
5°	944.5	934.2	943.6	941.5	938.1
7.5°	940.6	926.1	936.4	937.6	937.6
10°	932.9	926.5	936.8	934.2	932.5
12.5°	924.8	924.4	927.8	926.5	924.8
15°	913.3	913.7	911.6	916.3	914.6
17.5°	894.1	900.5	898.8	904.4	904.4
20°	883.0	879.6	884.3	886.9	883.9
22.5°	868.1	861.2	870.2	871.9	868.1
25°	844.2	846.3	850.2	854.4	859.1
27.5°	825.8	827.1	833.1	832.2	836.5
30°	806.6	807.5	815.6	819.4	812.6
32.5°	779.3	788.7	795.5	793.8	793.4
35°	755.0	758.8	768.6	770.8	768.6
37.5°	730.7	733.2	743.0	742.6	743.9
40°	702.1	707.2	718.7	714.9	721.3
42.5°	673.0	679.0	683.7	688.0	688.4
45°	643.2	646.6	652.6	656.4	665.8
47.5°	609.4	617.6	623.5	626.5	620.5
50°	572.3	586.0	591.1	594.1	592.4
52.5°	538.2	552.7	557.0	557.0	558.2
55°	505.7	513.8	521.1	519.4	523.2
57.5°	469.0	478.0	482.7	484.8	486.5
60°	430.6	443.0	445.6	444.7	444.3
62.5°	390.9	402.0	407.2	403.7	406.7
65°	353.8	358.5	365.8	365.8	367.9
67.5°	314.5	319.7	324.4	323.5	320.1
70°	268.9	276.1	282.1	276.6	272.7
72.5°	228.8	234.7	235.6	231.3	231.7
75°	184.4	191.6	192.9	186.5	188.2
77.5°	142.5	150.2	151.5	144.7	144.7
80°	104.6	109.7	107.5	104.6	104.6
82.5°	67.9	71.3	69.1	70.8	69.1
85°	35.8	36.7	38.0	38.4	39.7
87.5°	11.9	13.2	12.8	11.5	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)