

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: P709601

Luminaire Tested: **14ARS-L3C3-UNV-4000K-LOW**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709601
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-4000K-LOW
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 4000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

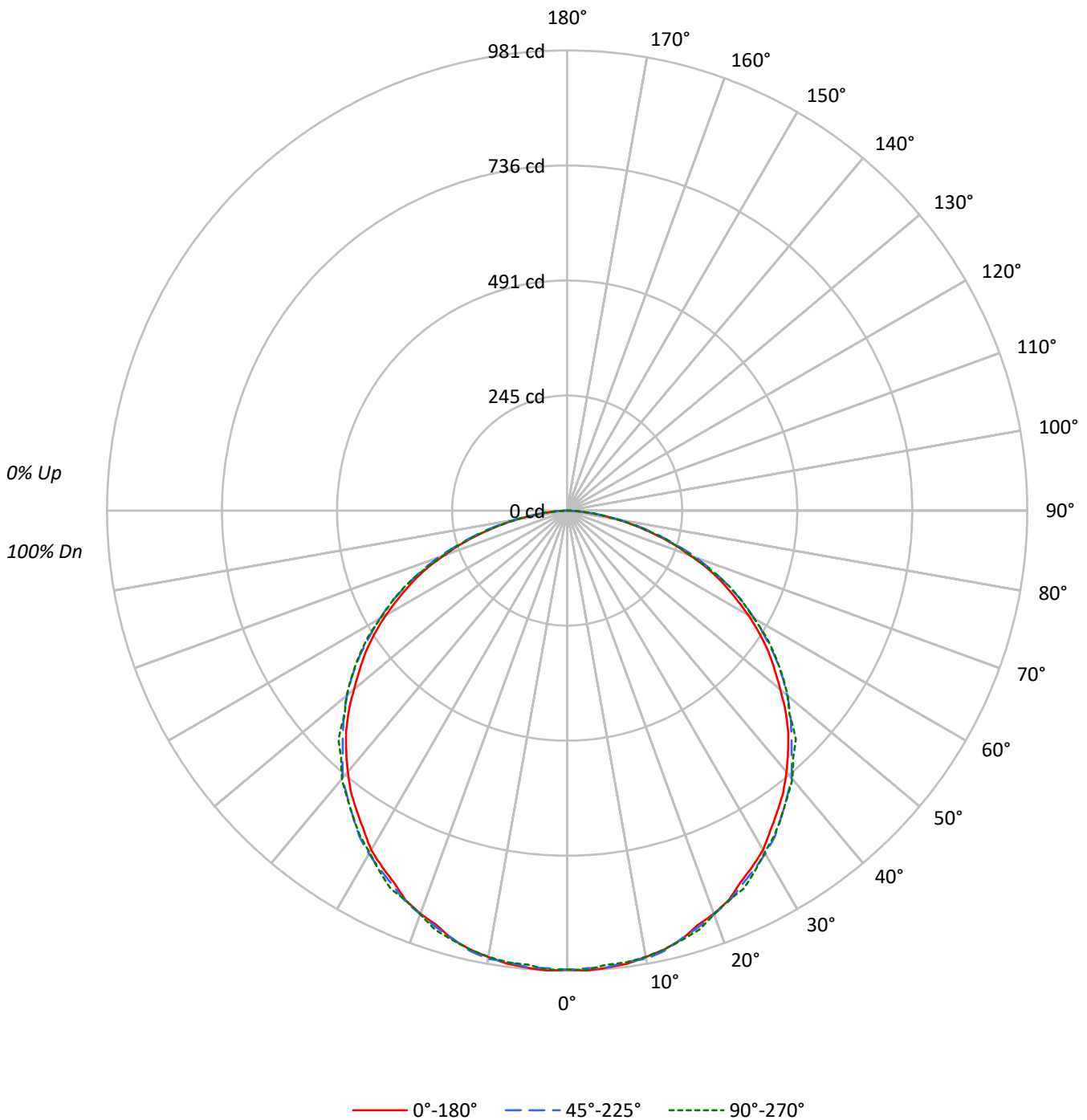
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2890.0 lumens
Efficiency: N/A
Efficacy: 145.2 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): 19.9
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°	3203	3203	3203
5°	3213	3210	3192
10°	3211	3224	3209
15°	3205	3199	3209
20°	3185	3190	3188
25°	3157	3179	3213
30°	3157	3192	3180
35°	3124	3181	3181
40°	3106	3180	3191
45°	3083	3128	3191
50°	3018	3117	3124
55°	2989	3080	3092
60°	2919	3020	3012
65°	2838	2934	2951
70°	2664	2796	2703
75°	2415	2526	2465
80°	2041	2099	2041
85°	1393	1475	1543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	3.2
10°-20°	267.1	9.2
20°-30°	406.2	14.1
30°-40°	496.2	17.2
40°-50°	521.4	18.0
50°-60°	479.0	16.6
60°-70°	370.7	12.8
70°-80°	207.9	7.2
80°-90°	48.8	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°	766.0	26.5
0°-40°	1262.2	43.7
0°-60°	2262.6	78.3
0°-90°	2890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	978	968	977	975	972	93
15°	946	946	944	949	947	266
25°	874	877	881	885	890	404
35°	782	786	796	798	796	490
45°	666	670	676	680	690	513
55°	524	532	540	538	542	467
65°	366	371	379	379	381	361
75°	191	198	200	193	195	203
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°	978.8	978.8	978.8	978.8	978.8
2.5°	981.4	977.0	976.6	978.3	979.6
5°	978.3	967.7	977.4	975.2	971.7
7.5°	974.3	959.3	969.9	971.2	971.2
10°	966.4	959.8	970.4	967.7	965.9
12.5°	958.0	957.5	961.1	959.8	958.0
15°	946.1	946.5	944.3	949.1	947.4
17.5°	926.2	932.8	931.0	936.8	936.8
20°	914.7	911.1	916.0	918.6	915.5
22.5°	899.2	892.1	901.4	903.2	899.2
25°	874.4	876.6	880.6	885.0	889.9
27.5°	855.4	856.8	862.9	862.1	866.5
30°	835.5	836.4	844.8	848.8	841.7
32.5°	807.2	817.0	824.0	822.3	821.8
35°	782.0	786.0	796.2	798.4	796.2
37.5°	756.8	759.5	769.7	769.2	770.5
40°	727.2	732.5	744.5	740.5	747.1
42.5°	697.2	703.3	708.2	712.6	713.1
45°	666.2	669.8	675.9	679.9	689.6
47.5°	631.3	639.7	645.9	649.0	642.8
50°	592.8	607.0	612.3	615.4	613.6
52.5°	557.5	572.5	576.9	576.9	578.2
55°	523.9	532.3	539.8	538.0	542.0
57.5°	485.8	495.1	500.0	502.2	504.0
60°	446.1	458.9	461.5	460.6	460.2
62.5°	404.9	416.4	421.7	418.2	421.3
65°	366.5	371.3	378.9	378.9	381.1
67.5°	325.8	331.1	336.0	335.1	331.6
70°	278.5	286.0	292.2	286.5	282.5
72.5°	237.0	243.1	244.0	239.6	240.0
75°	191.0	198.5	199.8	193.2	195.0
77.5°	147.7	155.6	156.9	149.9	149.9
80°	108.3	113.6	111.4	108.3	108.3
82.5°	70.3	73.8	71.6	73.4	71.6
85°	37.1	38.0	39.3	39.8	41.1
87.5°	12.4	13.7	13.3	11.9	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)