

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: P709579

Luminaire Tested: **14ARS-L3C3-HO-SQR-UNV-3500K-HI**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709579
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-HO-SQR-UNV-3500K-HI
Description: ARS 1x4 Selectable High Output 80CRI Square, SET AT 3500K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

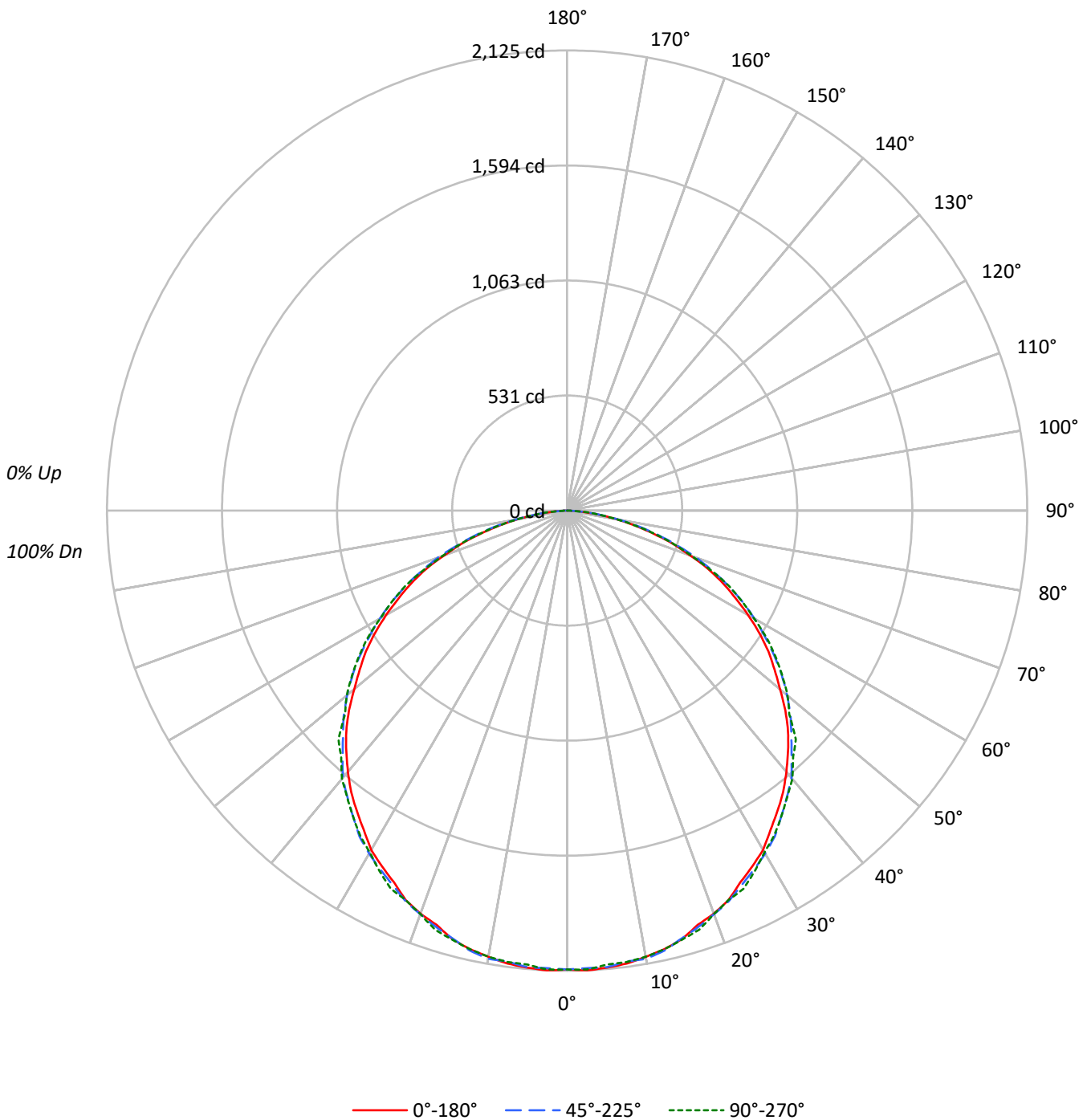
Lumens per Lamp: N/A
Luminaire Lumens: 6258.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 46.9
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	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°	6935	6935	6935
5°	6959	6952	6911
10°	6953	6982	6950
15°	6940	6927	6949
20°	6897	6907	6903
25°	6836	6885	6957
30°	6836	6912	6887
35°	6764	6887	6887
40°	6726	6886	6911
45°	6676	6773	6911
50°	6535	6749	6764
55°	6472	6668	6695
60°	6321	6540	6522
65°	6145	6352	6389
70°	5770	6054	5852
75°	5228	5471	5338
80°	4419	4545	4419
85°	3019	3199	3341



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	3.2
10°-20°	578.4	9.2
20°-30°	879.7	14.1
30°-40°	1074.5	17.2
40°-50°	1129.1	18.0
50°-60°	1037.2	16.6
60°-70°	802.7	12.8
70°-80°	450.1	7.2
80°-90°	105.6	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°	1658.7	26.5
0°-40°	2733.2	43.7
0°-60°	4899.5	78.3
0°-90°	6258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2119	2119	2119	2119	2119	
5°	2118	2096	2116	2112	2104	201
15°	2049	2050	2045	2055	2051	577
25°	1894	1898	1907	1916	1927	876
35°	1693	1702	1724	1729	1724	1061
45°	1443	1450	1464	1472	1493	1110
55°	1134	1153	1169	1165	1174	1011
65°	794	804	820	820	825	782
75°	414	430	433	418	422	439
85°	80	82	85	86	89	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2119.4	2119.4	2119.4	2119.4	2119.4
2.5°	2125.2	2115.6	2114.6	2118.5	2121.3
5°	2118.5	2095.5	2116.5	2111.8	2104.1
7.5°	2109.8	2077.3	2100.3	2103.1	2103.1
10°	2092.6	2078.3	2101.2	2095.5	2091.7
12.5°	2074.4	2073.5	2081.1	2078.3	2074.4
15°	2048.6	2049.5	2044.7	2055.3	2051.4
17.5°	2005.5	2019.9	2016.0	2028.5	2028.5
20°	1980.6	1973.0	1983.5	1989.2	1982.5
22.5°	1947.1	1931.8	1951.9	1955.7	1947.1
25°	1893.5	1898.3	1906.9	1916.5	1927.0
27.5°	1852.3	1855.2	1868.6	1866.7	1876.3
30°	1809.3	1811.2	1829.4	1838.0	1822.7
32.5°	1748.0	1769.1	1784.4	1780.5	1779.6
35°	1693.4	1702.0	1724.1	1728.8	1724.1
37.5°	1638.9	1644.6	1666.6	1665.7	1668.5
40°	1574.7	1586.2	1612.1	1603.4	1617.8
42.5°	1509.6	1523.0	1533.6	1543.1	1544.1
45°	1442.6	1450.3	1463.7	1472.3	1493.4
47.5°	1367.0	1385.2	1398.6	1405.3	1391.9
50°	1283.7	1314.3	1325.8	1332.5	1328.7
52.5°	1207.1	1239.7	1249.2	1249.2	1252.1
55°	1134.4	1152.6	1168.8	1165.0	1173.6
57.5°	1052.0	1072.2	1082.7	1087.5	1091.3
60°	965.9	993.7	999.4	997.5	996.5
62.5°	876.9	901.8	913.2	905.6	912.3
65°	793.6	804.1	820.4	820.4	825.2
67.5°	705.5	717.0	727.5	725.6	718.0
70°	603.1	619.4	632.8	620.3	611.7
72.5°	513.1	526.5	528.4	518.8	519.8
75°	413.5	429.8	432.7	418.3	422.2
77.5°	319.7	337.0	339.8	324.5	324.5
80°	234.5	246.0	241.2	234.5	234.5
82.5°	152.2	159.9	155.1	158.9	155.1
85°	80.4	82.3	85.2	86.2	89.0
87.5°	26.8	29.7	28.7	25.8	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)