

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: P709587

Luminaire Tested: **14ARS-L3C3-HO-SQR-UNV-5000K-MID**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709587
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-5000K-MID
Description: ARS 1x4 Selectable High Output 80CRI Square, SET AT 5000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

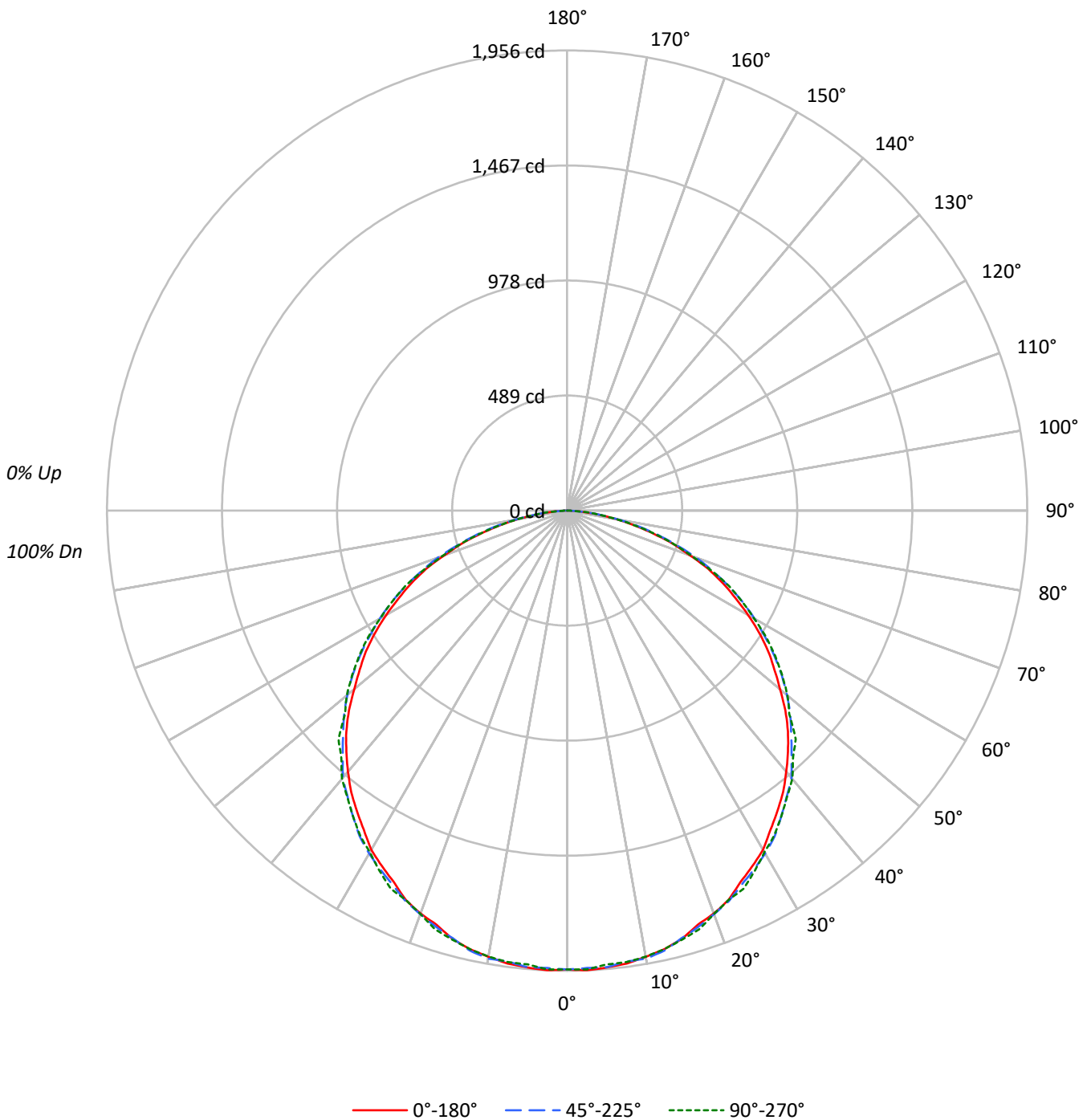
Lumens per Lamp: N/A
Luminaire Lumens: 5759.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 42.2
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

TEST NUMBER: P709587

CATALOG NUMBER: 14ARS-L3C3-HO-SQR-UNV-5000K-MID

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°	6382	6382	6382
5°	6404	6398	6360
10°	6399	6425	6396
15°	6386	6375	6396
20°	6347	6356	6353
25°	6291	6336	6402
30°	6291	6361	6338
35°	6225	6338	6338
40°	6190	6337	6359
45°	6144	6233	6360
50°	6014	6211	6225
55°	5955	6136	6161
60°	5817	6019	6002
65°	5654	5846	5880
70°	5310	5571	5385
75°	4812	5034	4912
80°	4067	4183	4067
85°	2778	2943	3075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	3.2
10°-20°	532.2	9.2
20°-30°	809.5	14.1
30°-40°	988.8	17.2
40°-50°	1039.1	18.0
50°-60°	954.5	16.6
60°-70°	738.7	12.8
70°-80°	414.2	7.2
80°-90°	97.2	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°	1526.4	26.5
0°-40°	2515.3	43.7
0°-60°	4508.8	78.3
0°-90°	5759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1950	1928	1948	1943	1936	185
15°	1885	1886	1882	1891	1888	531
25°	1742	1747	1755	1764	1773	806
35°	1558	1566	1587	1591	1587	976
45°	1328	1335	1347	1355	1374	1021
55°	1044	1061	1076	1072	1080	930
65°	730	740	755	755	759	720
75°	381	396	398	385	388	404
85°	74	76	78	79	82	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.4	1950.4	1950.4	1950.4	1950.4
2.5°	1955.7	1946.9	1946.0	1949.5	1952.2
5°	1949.5	1928.4	1947.8	1943.4	1936.3
7.5°	1941.6	1911.7	1932.8	1935.4	1935.4
10°	1925.8	1912.5	1933.7	1928.4	1924.9
12.5°	1909.0	1908.1	1915.2	1912.5	1909.0
15°	1885.2	1886.1	1881.7	1891.4	1887.9
17.5°	1845.6	1858.8	1855.3	1866.7	1866.7
20°	1822.7	1815.6	1825.3	1830.6	1824.4
22.5°	1791.8	1777.8	1796.3	1799.8	1791.8
25°	1742.5	1746.9	1754.8	1763.7	1773.3
27.5°	1704.6	1707.3	1719.6	1717.8	1726.7
30°	1665.0	1666.8	1683.5	1691.4	1677.3
32.5°	1608.6	1628.0	1642.1	1638.6	1637.7
35°	1558.4	1566.3	1586.6	1591.0	1586.6
37.5°	1508.2	1513.5	1533.7	1532.8	1535.5
40°	1449.2	1459.7	1483.5	1475.6	1488.8
42.5°	1389.3	1401.6	1411.3	1420.1	1421.0
45°	1327.6	1334.6	1347.0	1354.9	1374.3
47.5°	1258.0	1274.7	1287.1	1293.2	1280.9
50°	1181.4	1209.5	1220.1	1226.3	1222.8
52.5°	1110.9	1140.8	1149.6	1149.6	1152.3
55°	1043.9	1060.7	1075.6	1072.1	1080.0
57.5°	968.2	986.7	996.4	1000.8	1004.3
60°	888.9	914.4	919.7	917.9	917.1
62.5°	806.9	829.9	840.4	833.4	839.5
65°	730.3	740.0	755.0	755.0	759.4
67.5°	649.3	659.8	669.5	667.8	660.7
70°	555.0	570.0	582.3	570.9	562.9
72.5°	472.2	484.5	486.3	477.5	478.4
75°	380.6	395.5	398.2	385.0	388.5
77.5°	294.2	310.1	312.7	298.6	298.6
80°	215.8	226.4	222.0	215.8	215.8
82.5°	140.1	147.1	142.7	146.2	142.7
85°	74.0	75.8	78.4	79.3	81.9
87.5°	24.7	27.3	26.4	23.8	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)