

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: P709583

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709583
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-4000K-LOW
Description: ARS 1x4 Selectable High Output 80CRI Square, SET AT 4000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

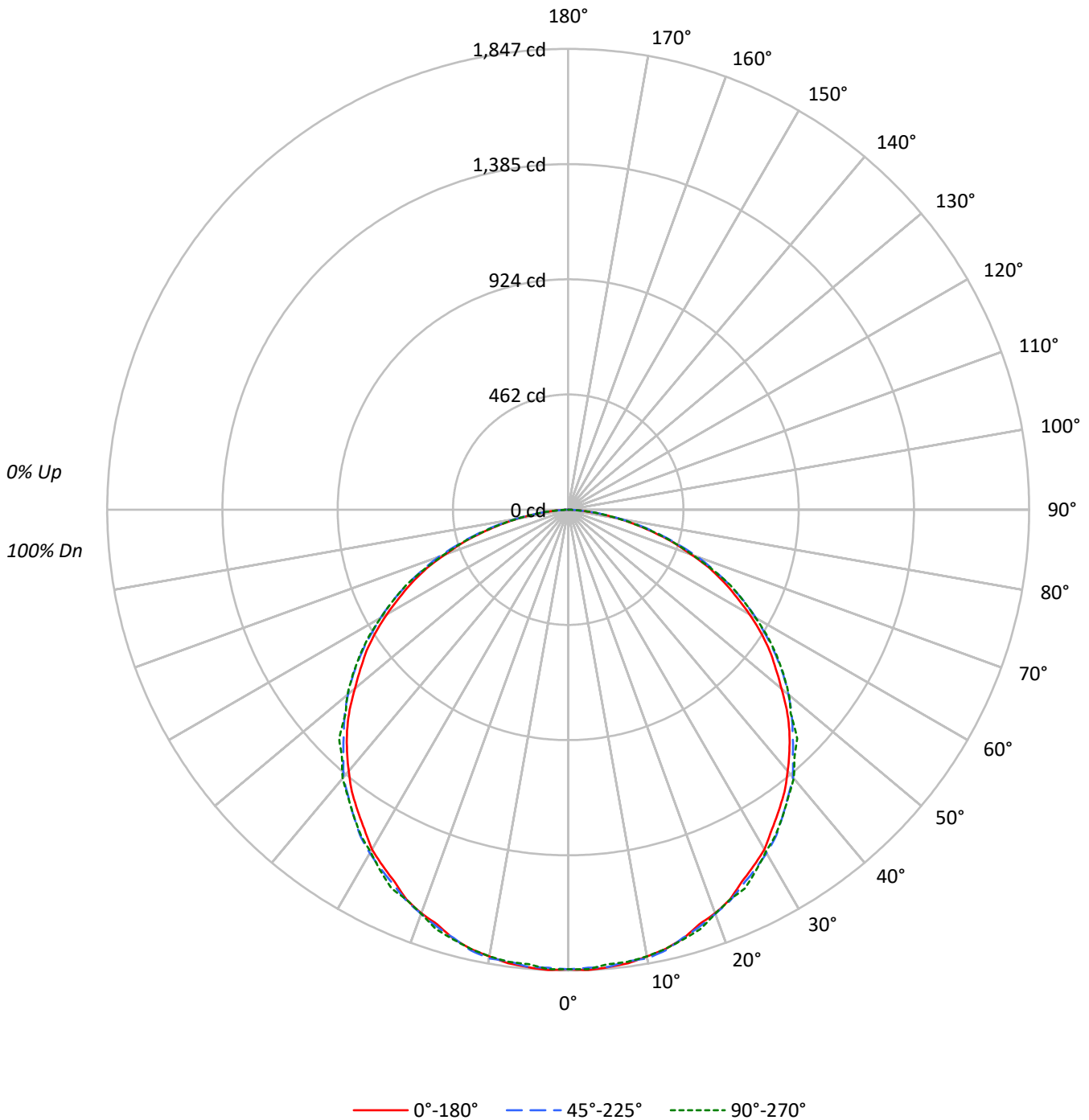
Lumens per Lamp: N/A
Luminaire Lumens: 5438.0 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
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°	6026	6026	6026
5°	6047	6041	6006
10°	6042	6067	6039
15°	6030	6019	6039
20°	5993	6002	5999
25°	5941	5983	6046
30°	5940	6007	5984
35°	5878	5985	5985
40°	5845	5984	6005
45°	5801	5886	6005
50°	5679	5865	5878
55°	5623	5794	5818
60°	5493	5683	5667
65°	5339	5520	5552
70°	5014	5260	5085
75°	4544	4754	4637
80°	3840	3950	3840
85°	2624	2778	2906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	3.2
10°-20°	502.6	9.2
20°-30°	764.4	14.1
30°-40°	933.7	17.2
40°-50°	981.1	18.0
50°-60°	901.3	16.6
60°-70°	697.6	12.8
70°-80°	391.2	7.2
80°-90°	91.8	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°	1441.4	26.5
0°-40°	2375.1	43.7
0°-60°	4257.5	78.3
0°-90°	5438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1841	1821	1839	1835	1828	175
15°	1780	1781	1777	1786	1783	501
25°	1645	1650	1657	1665	1674	761
35°	1472	1479	1498	1502	1498	922
45°	1254	1260	1272	1279	1298	964
55°	986	1002	1016	1012	1020	878
65°	690	699	713	713	717	680
75°	359	374	376	364	367	381
85°	70	72	74	75	77	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1841.7	1841.7	1841.7	1841.7	1841.7
2.5°	1846.7	1838.4	1837.5	1840.9	1843.4
5°	1840.9	1820.9	1839.2	1835.0	1828.4
7.5°	1833.4	1805.1	1825.1	1827.6	1827.6
10°	1818.4	1805.9	1825.9	1820.9	1817.6
12.5°	1802.6	1801.8	1808.4	1805.9	1802.6
15°	1780.1	1781.0	1776.8	1786.0	1782.6
17.5°	1742.7	1755.2	1751.9	1762.7	1762.7
20°	1721.1	1714.4	1723.6	1728.6	1722.7
22.5°	1692.0	1678.7	1696.1	1699.5	1692.0
25°	1645.4	1649.5	1657.0	1665.4	1674.5
27.5°	1609.6	1612.1	1623.8	1622.1	1630.4
30°	1572.2	1573.8	1589.7	1597.1	1583.8
32.5°	1518.9	1537.2	1550.6	1547.2	1546.4
35°	1471.5	1479.0	1498.2	1502.3	1498.2
37.5°	1424.1	1429.1	1448.2	1447.4	1449.9
40°	1368.4	1378.4	1400.8	1393.3	1405.8
42.5°	1311.8	1323.5	1332.6	1340.9	1341.8
45°	1253.6	1260.2	1271.9	1279.4	1297.7
47.5°	1187.9	1203.7	1215.3	1221.1	1209.5
50°	1115.5	1142.1	1152.1	1157.9	1154.6
52.5°	1049.0	1077.2	1085.6	1085.6	1088.1
55°	985.7	1001.5	1015.7	1012.4	1019.8
57.5°	914.2	931.7	940.8	945.0	948.3
60°	839.3	863.5	868.4	866.8	865.9
62.5°	762.0	783.6	793.6	786.9	792.7
65°	689.6	698.7	712.9	712.9	717.0
67.5°	613.1	623.1	632.2	630.5	623.9
70°	524.1	538.2	549.8	539.0	531.5
72.5°	445.9	457.5	459.2	450.9	451.7
75°	359.4	373.5	376.0	363.5	366.8
77.5°	277.8	292.8	295.3	282.0	282.0
80°	203.8	213.8	209.6	203.8	203.8
82.5°	132.3	138.9	134.8	138.1	134.8
85°	69.9	71.5	74.0	74.9	77.4
87.5°	23.3	25.8	25.0	22.5	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)