

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: P709585

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709585
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-HI
Description: ARS 1x4 Selectable High Output 80CRI Square, SET AT 5000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

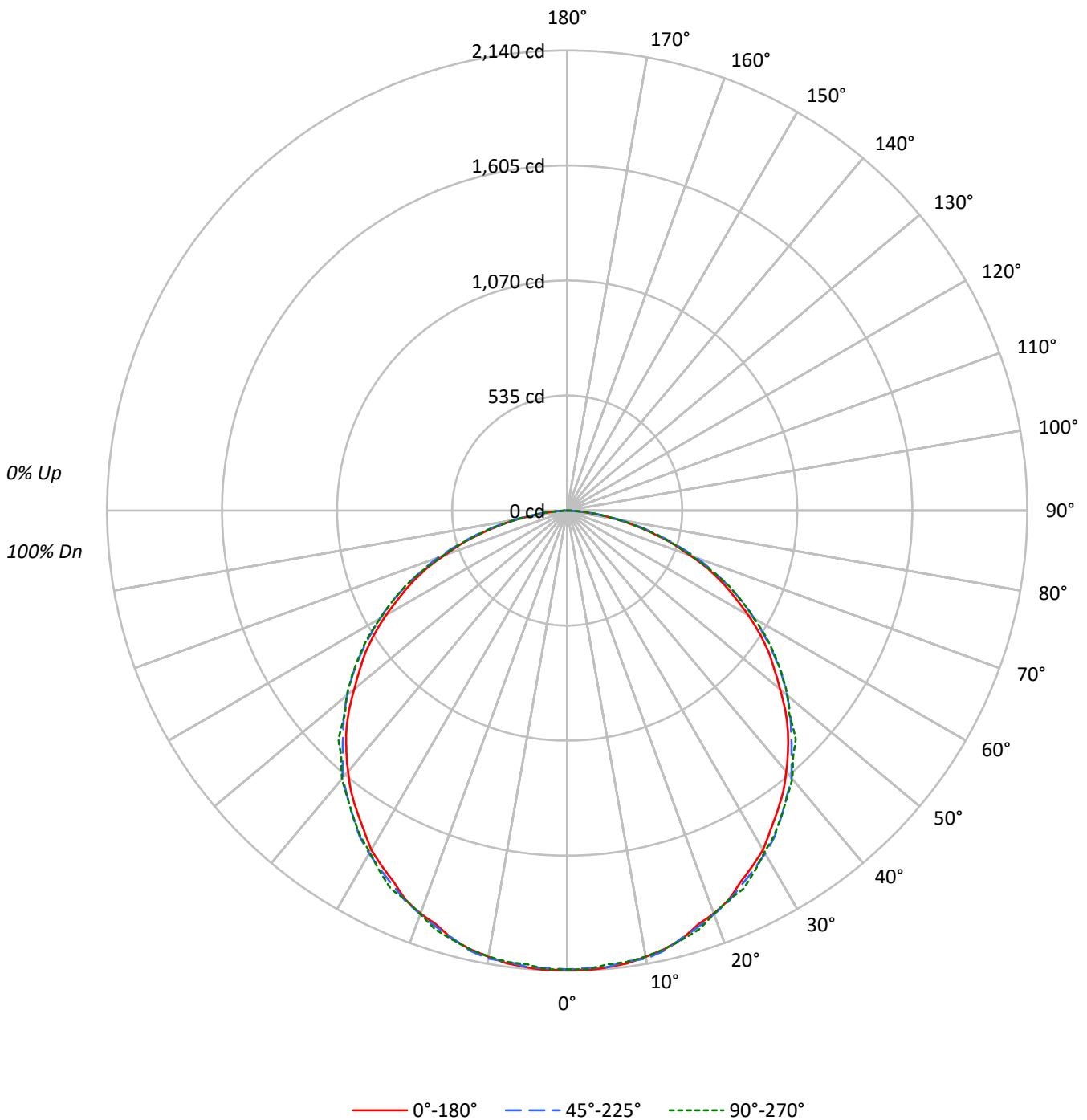
Lumens per Lamp: N/A
Luminaire Lumens: 6301.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 46.7
Input Voltage (V): NR
Input Current (Ain): 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°	6983	6983	6983
5°	7006	7000	6959
10°	7001	7030	6998
15°	6988	6974	6997
20°	6944	6954	6951
25°	6883	6932	7005
30°	6883	6959	6934
35°	6811	6934	6934
40°	6773	6933	6958
45°	6722	6820	6958
50°	6580	6796	6810
55°	6516	6714	6741
60°	6364	6586	6567
65°	6186	6395	6433
70°	5809	6095	5892
75°	5264	5508	5374
80°	4449	4577	4449
85°	3041	3221	3364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.0	3.2
10°-20°	582.3	9.2
20°-30°	885.7	14.1
30°-40°	1081.9	17.2
40°-50°	1136.8	18.0
50°-60°	1044.3	16.6
60°-70°	808.3	12.8
70°-80°	453.2	7.2
80°-90°	106.3	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°	1670.1	26.5
0°-40°	2752.0	43.7
0°-60°	4933.1	78.3
0°-90°	6301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2134	2134	2134	2134	2134	
5°	2133	2110	2131	2126	2119	203
15°	2063	2064	2059	2069	2066	581
25°	1906	1911	1920	1930	1940	882
35°	1705	1714	1736	1741	1736	1068
45°	1452	1460	1474	1482	1504	1118
55°	1142	1160	1177	1173	1182	1018
65°	799	810	826	826	831	787
75°	416	433	436	421	425	442
85°	81	83	86	87	90	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2134.0	2134.0	2134.0	2134.0	2134.0
2.5°	2139.8	2130.1	2129.2	2133.0	2135.9
5°	2133.0	2109.9	2131.1	2126.3	2118.6
7.5°	2124.3	2091.6	2114.7	2117.6	2117.6
10°	2107.0	2092.5	2115.7	2109.9	2106.0
12.5°	2088.7	2087.7	2095.4	2092.5	2088.7
15°	2062.7	2063.6	2058.8	2069.4	2065.5
17.5°	2019.3	2033.7	2029.9	2042.4	2042.4
20°	1994.2	1986.5	1997.1	2002.9	1996.1
22.5°	1960.5	1945.1	1965.3	1969.2	1960.5
25°	1906.5	1911.3	1920.0	1929.6	1940.2
27.5°	1865.1	1868.0	1881.4	1879.5	1889.2
30°	1821.7	1823.6	1841.9	1850.6	1835.2
32.5°	1760.0	1781.2	1796.6	1792.8	1791.8
35°	1705.1	1713.7	1735.9	1740.7	1735.9
37.5°	1650.1	1655.9	1678.1	1677.1	1680.0
40°	1585.5	1597.1	1623.1	1614.5	1628.9
42.5°	1520.0	1533.5	1544.1	1553.7	1554.7
45°	1452.5	1460.2	1473.7	1482.4	1503.6
47.5°	1376.4	1394.7	1408.2	1414.9	1401.4
50°	1292.5	1323.4	1334.9	1341.7	1337.8
52.5°	1215.4	1248.2	1257.8	1257.8	1260.7
55°	1142.2	1160.5	1176.9	1173.0	1181.7
57.5°	1059.3	1079.5	1090.1	1094.9	1098.8
60°	972.5	1000.5	1006.3	1004.3	1003.4
62.5°	882.9	908.0	919.5	911.8	918.6
65°	799.0	809.6	826.0	826.0	830.8
67.5°	710.4	721.9	732.5	730.6	722.9
70°	607.2	623.6	637.1	624.6	615.9
72.5°	516.6	530.1	532.0	522.4	523.4
75°	416.4	432.8	435.7	421.2	425.1
77.5°	321.9	339.3	342.2	326.7	326.7
80°	236.1	247.7	242.9	236.1	236.1
82.5°	153.3	161.0	156.1	160.0	156.1
85°	81.0	82.9	85.8	86.7	89.6
87.5°	27.0	29.9	28.9	26.0	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)