Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P709584

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

Issue Date: 9/22/2023

Report Generated By 670246072 / DESKTOP-MV3F9LC

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Test Information

Test Method:	LM-79-08
Report Number:	P709584
	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-MID
Description:	ARS 1x4 Selectable High Output 80CRI Square, SET AT 4000K AND, MID LUMEN OUTPUT SETTINGS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5916.0 lumens
Efficiency:	N/A
Efficacy:	145.4 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):	40.7
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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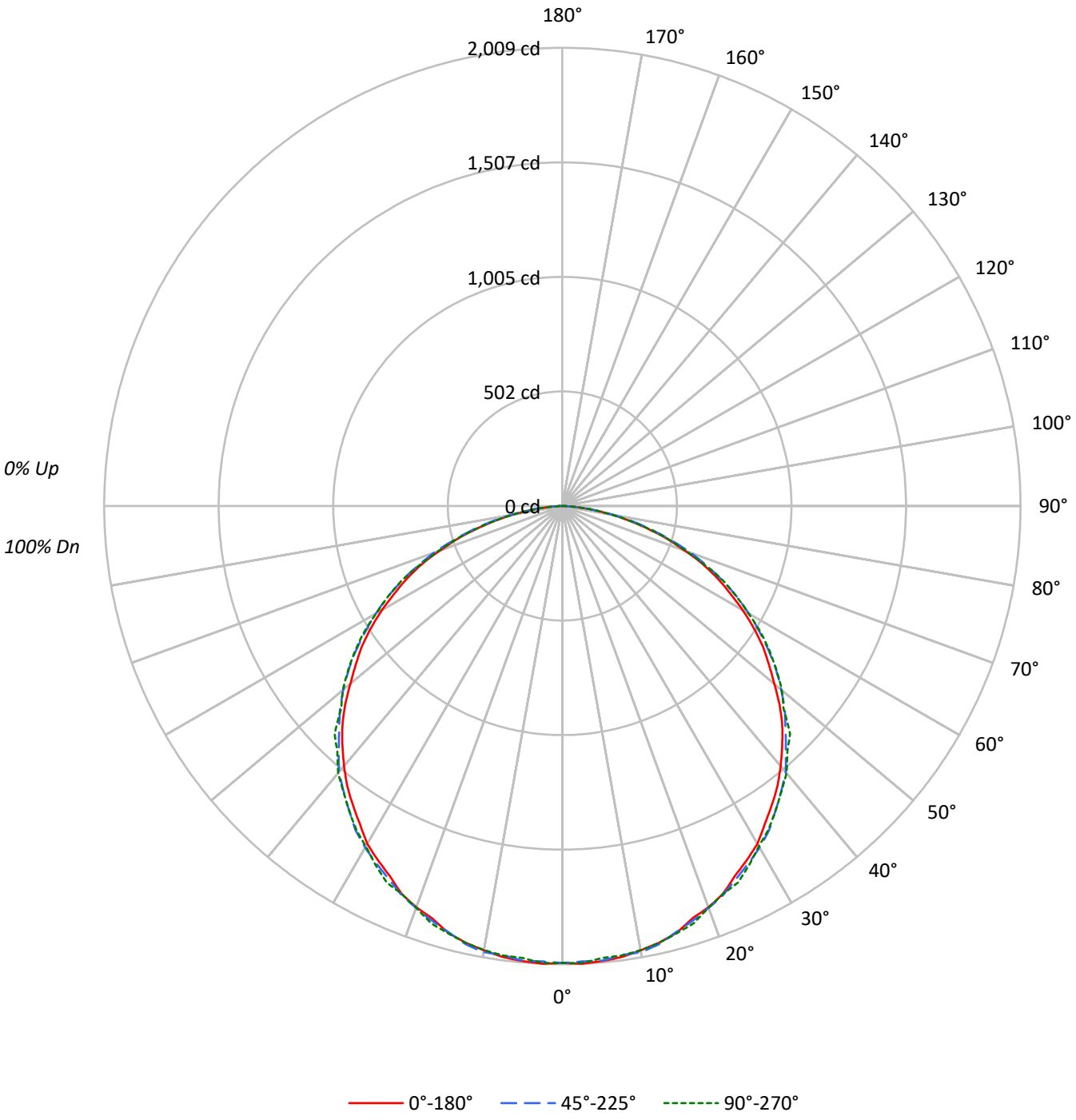
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	6556	6556	6556
5°	6578	6572	6534
10°	6573	6600	6570
15°	6560	6548	6570
20°	6520	6529	6526
25°	6463	6509	6577
30°	6463	6534	6511
35°	6395	6510	6510
40°	6359	6510	6533
45°	6311	6403	6533
50°	6178	6381	6394
55°	6118	6304	6330
60°	5976	6183	6165
65°	5809	6005	6040
70°	5454	5723	5533
75°	4942	5171	5046
80°	4178	4298	4178
85°	2853	3022	3161

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	3.2
10°-20°	546.8	9.2
20°-30°	831.6	14.1
30°-40°	1015.8	17.2
40°-50°	1067.4	18.0
50°-60°	980.5	16.6
60°-70°	758.9	12.8
70°-80°	425.5	7.2
80°-90°	99.8	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°	1568.1	26.5
0°-40°	2583.8	43.7
0°-60°	4631.7	78.3
0°-90°	5916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2004	2004	2004	2004	2004	
5°	2003	1981	2001	1996	1989	190
15°	1937	1938	1933	1943	1939	545
25°	1790	1794	1803	1812	1822	828
35°	1601	1609	1630	1634	1630	1003
45°	1364	1371	1384	1392	1412	1049
55°	1072	1090	1105	1101	1110	956
65°	750	760	776	776	780	739
75°	391	406	409	396	399	415
85°	76	78	80	81	84	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2003.6*	2003.6	2003.6	2003.6	2003.6
2.5°	*2009.0*	*2000.0*	*1999.1*	*2002.7*	*2005.4*
5°	*2002.7*	1981.0	2000.9	1996.3	1989.1
7.5°	*1994.5*	1963.8	1985.5	1988.2	1988.2
10°	*1978.3*	1964.7	1986.4	1981.0	1977.3
12.5°	*1961.1*	1960.2	1967.4	1964.7	1961.1
15°	*1936.6*	1937.5	1933.0	1943.0	1939.3
17.5°	*1895.9*	1909.5	1905.9	1917.6	1917.6
20°	*1872.4*	1865.1	1875.1	1880.5	1874.2
22.5°	*1840.7*	1826.2	1845.2	1848.8	1840.7
25°	*1790.0*	1794.5	1802.7	1811.7	1821.7
27.5°	*1751.1*	1753.8	1766.5	1764.7	1773.7
30°	*1710.4*	1712.2	1729.4	1737.5	1723.1
32.5°	*1652.5*	1672.4	1686.9	1683.2	1682.3
35°	*1600.9*	1609.0	1629.8	1634.4	1629.8
37.5°	*1549.3*	1554.7	1575.5	1574.6	1577.4
40°	*1488.7*	1499.5	1524.0	1515.8	1529.4
42.5°	*1427.1*	1439.8	1449.8	1458.8	1459.7
45°	*1363.8*	1371.0	1383.7	1391.8	1411.7
47.5°	*1292.3*	1309.5	1322.2	1328.5	1315.8
50°	*1213.6*	1242.5	1253.4	1259.7	1256.1
52.5°	*1141.2*	1171.9	1181.0	1181.0	1183.7
55°	*1072.4*	1089.6	1105.0	1101.3	1109.5
57.5°	*994.6*	1013.6	1023.5	1028.0	1031.7
60°	*913.1*	939.4	944.8	943.0	942.1
62.5°	*828.9*	852.5	863.3	856.1	862.4
65°	*750.2*	760.2	775.6	775.6	780.1
67.5°	*667.0*	677.8	687.8	686.0	678.7
70°	*570.1*	585.5	598.2	586.4	578.3
72.5°	*485.1*	497.7	499.5	490.5	491.4
75°	*390.9*	406.3	409.0	395.5	399.1
77.5°	*302.3*	318.5	321.3	306.8	306.8
80°	*221.7*	232.6	228.1	221.7	221.7
82.5°	*143.9*	151.1	146.6	150.2	146.6
85°	*76.0*	77.8	80.5	81.4	84.2
87.5°	*25.3*	28.1	27.1	24.4	22.6
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)