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: P709581

Luminaire Tested: **14ARS-L3C3-HO-SQR-UNV-3500K-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:	P709581
	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-MID
Description:	ARS 1x4 Selectable High Output 80CRI Square, SET AT 3500K AND, MID LUMEN OUTPUT SETTINGS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5761.0 lumens
Efficiency:	N/A
Efficacy:	135.9 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):	42.4
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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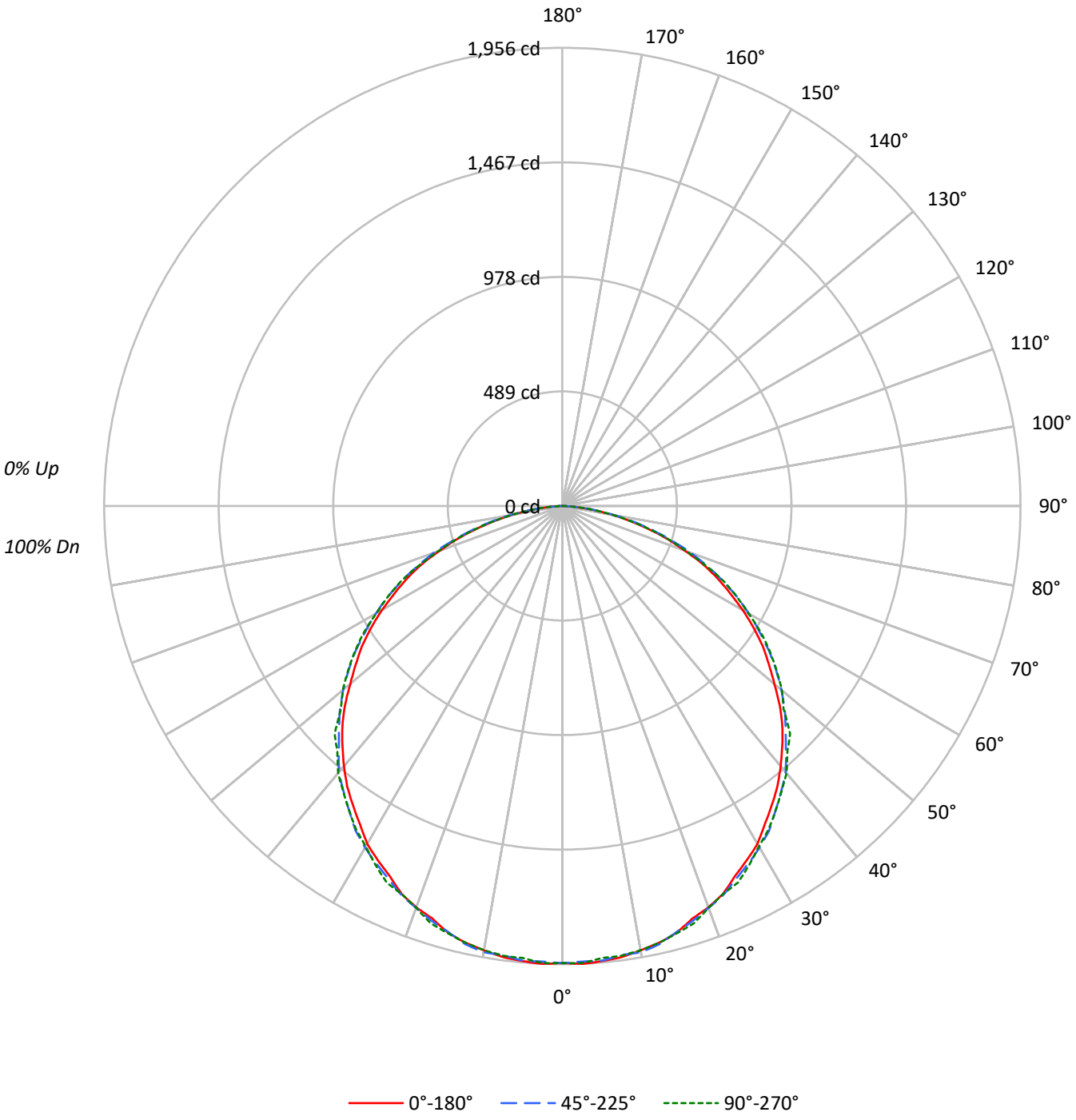
Luminous Intensity Polar Plot



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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°	6384	6384	6384
5°	6406	6400	6362
10°	6401	6427	6398
15°	6389	6377	6398
20°	6349	6359	6355
25°	6293	6338	6405
30°	6293	6363	6340
35°	6227	6340	6340
40°	6192	6339	6362
45°	6145	6235	6362
50°	6016	6213	6227
55°	5958	6138	6164
60°	5819	6021	6004
65°	5657	5847	5881
70°	5312	5573	5387
75°	4813	5036	4913
80°	4068	4185	4068
85°	2778	2943	3079

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	3.2
10°-20°	532.4	9.2
20°-30°	809.8	14.1
30°-40°	989.2	17.2
40°-50°	1039.4	18.0
50°-60°	954.8	16.6
60°-70°	739.0	12.8
70°-80°	414.4	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°	1527.0	26.5
0°-40°	2516.1	43.7
0°-60°	4510.4	78.3
0°-90°	5761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1950	1929	1948	1944	1937	185
15°	1886	1887	1882	1892	1888	531
25°	1743	1748	1756	1764	1774	806
35°	1559	1567	1587	1592	1587	977
45°	1328	1335	1347	1355	1375	1022
55°	1044	1061	1076	1072	1080	930
65°	731	740	755	755	760	720
75°	381	396	398	385	389	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°	*1951.1*	1951.1	1951.1	1951.1	1951.1
2.5°	*1956.4*	*1947.6*	*1946.7*	*1950.2*	*1952.9*
5°	*1950.2*	1929.1	1948.5	1944.0	1937.0
7.5°	*1942.3*	1912.3	1933.5	1936.1	1936.1
10°	*1926.4*	1913.2	1934.4	1929.1	1925.5
12.5°	*1909.7*	1908.8	1915.8	1913.2	1909.7
15°	*1885.9*	1886.8	1882.4	1892.1	1888.5
17.5°	*1846.2*	1859.4	1855.9	1867.4	1867.4
20°	*1823.3*	1816.3	1826.0	1831.2	1825.1
22.5°	*1792.5*	1778.4	1796.9	1800.4	1792.5
25°	*1743.1*	1747.5	1755.5	1764.3	1774.0
27.5°	*1705.2*	1707.9	1720.2	1718.4	1727.3
30°	*1665.6*	1667.3	1684.1	1692.0	1677.9
32.5°	*1609.2*	1628.6	1642.7	1639.1	1638.2
35°	*1558.9*	1566.9	1587.1	1591.5	1587.1
37.5°	*1508.7*	1514.0	1534.3	1533.4	1536.0
40°	*1449.7*	1460.2	1484.0	1476.1	1489.3
42.5°	*1389.7*	1402.1	1411.8	1420.6	1421.5
45°	*1328.0*	1335.1	1347.4	1355.4	1374.8
47.5°	*1258.4*	1275.2	1287.5	1293.7	1281.3
50°	*1181.8*	1210.0	1220.5	1226.7	1223.2
52.5°	*1111.3*	1141.2	1150.0	1150.0	1152.7
55°	*1044.3*	1061.0	1076.0	1072.5	1080.4
57.5°	*968.5*	987.0	996.7	1001.1	1004.6
60°	*889.2*	914.7	920.0	918.3	917.4
62.5°	*807.2*	830.1	840.7	833.7	839.8
65°	*730.6*	740.3	755.2	755.2	759.6
67.5°	*649.5*	660.1	669.8	668.0	660.9
70°	*555.2*	570.2	582.5	571.1	563.1
72.5°	*472.4*	484.7	486.5	477.6	478.5
75°	*380.7*	395.7	398.3	385.1	388.6
77.5°	*294.3*	310.2	312.8	298.7	298.7
80°	*215.9*	226.5	222.1	215.9	215.9
82.5°	*140.1*	147.2	142.8	146.3	142.8
85°	*74.0*	75.8	78.4	79.3	82.0
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)