

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: P709591

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709591
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-UNV-4000K-HI
Description: ARS 1x4 Selectable High Output 80CRI Round, SET AT 4000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

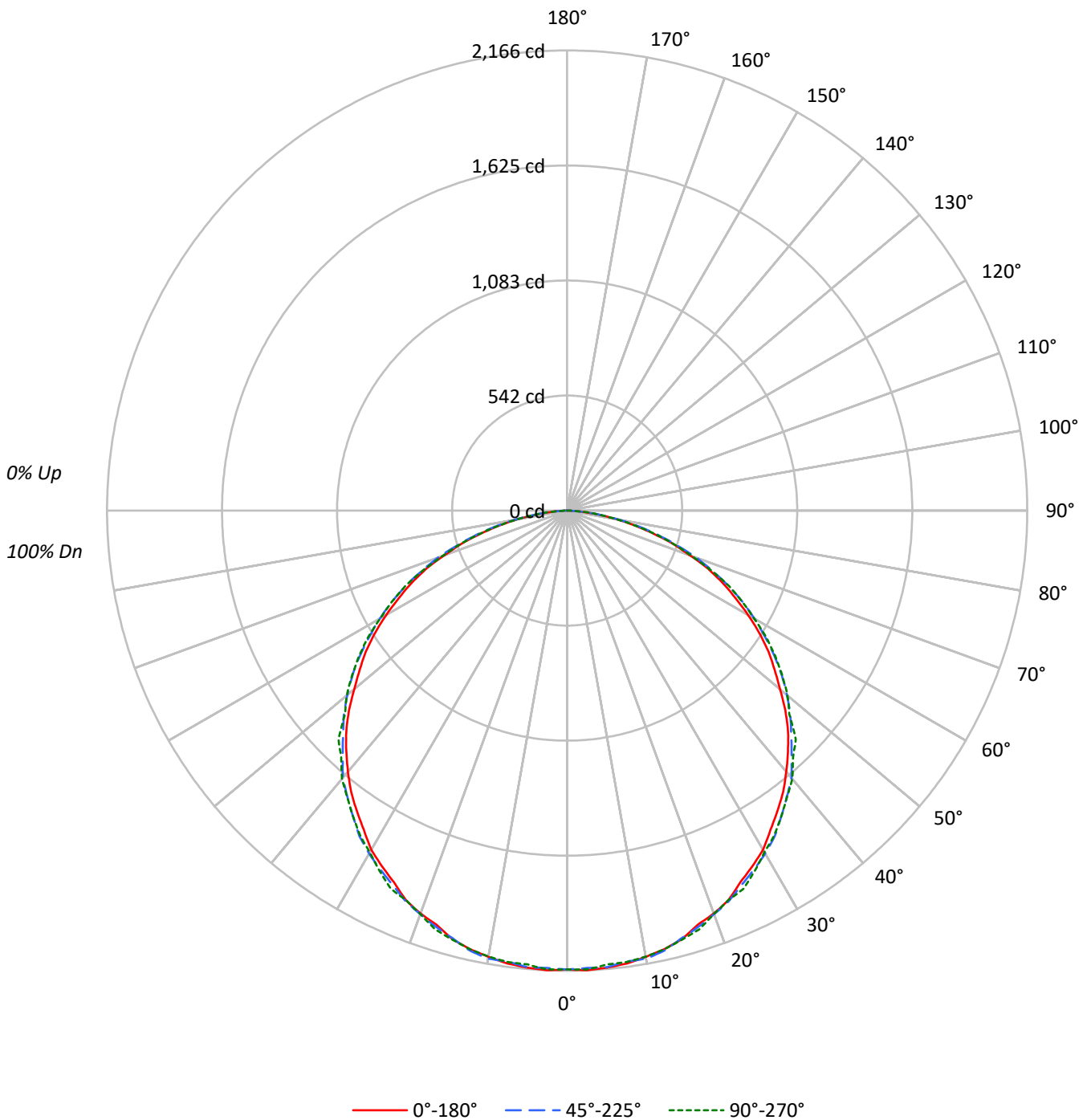
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6378.0 lumens
Efficiency: N/A
Efficacy: 143.3 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): 44.5
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°	7068	7068	7068
5°	7092	7085	7044
10°	7086	7116	7083
15°	7073	7060	7083
20°	7029	7039	7036
25°	6967	7017	7091
30°	6967	7044	7019
35°	6894	7019	7019
40°	6855	7018	7043
45°	6804	6903	7043
50°	6660	6879	6894
55°	6595	6796	6824
60°	6442	6666	6647
65°	6262	6474	6512
70°	5881	6170	5964
75°	5329	5575	5440
80°	4504	4634	4504
85°	3079	3259	3405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.5	3.2
10°-20°	589.5	9.2
20°-30°	896.6	14.1
30°-40°	1095.1	17.2
40°-50°	1150.7	18.0
50°-60°	1057.1	16.6
60°-70°	818.1	12.8
70°-80°	458.8	7.2
80°-90°	107.6	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°	1690.5	26.5
0°-40°	2785.6	43.7
0°-60°	4993.4	78.3
0°-90°	6378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2159	2136	2157	2152	2144	205
15°	2088	2089	2084	2095	2091	588
25°	1930	1935	1944	1953	1964	892
35°	1726	1735	1757	1762	1757	1081
45°	1470	1478	1492	1500	1522	1131
55°	1156	1175	1191	1187	1196	1030
65°	809	820	836	836	841	797
75°	422	438	441	426	430	447
85°	82	84	87	88	91	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2160.1	2160.1	2160.1	2160.1	2160.1
2.5°	2165.9	2156.2	2155.2	2159.1	2162.0
5°	2159.1	2135.7	2157.1	2152.3	2144.4
7.5°	2150.3	2117.1	2140.5	2143.5	2143.5
10°	2132.7	2118.1	2141.5	2135.7	2131.8
12.5°	2114.2	2113.2	2121.0	2118.1	2114.2
15°	2087.9	2088.8	2084.0	2094.7	2090.8
17.5°	2044.0	2058.6	2054.7	2067.4	2067.4
20°	2018.6	2010.8	2021.5	2027.4	2020.5
22.5°	1984.4	1968.8	1989.3	1993.2	1984.4
25°	1929.8	1934.7	1943.5	1953.2	1964.0
27.5°	1887.9	1890.8	1904.4	1902.5	1912.2
30°	1844.0	1845.9	1864.4	1873.2	1857.6
32.5°	1781.5	1803.0	1818.6	1814.7	1813.7
35°	1725.9	1734.7	1757.1	1762.0	1757.1
37.5°	1670.3	1676.1	1698.6	1697.6	1700.5
40°	1604.9	1616.6	1643.0	1634.2	1648.8
42.5°	1538.6	1552.2	1563.0	1572.7	1573.7
45°	1470.3	1478.1	1491.7	1500.5	1522.0
47.5°	1393.2	1411.7	1425.4	1432.2	1418.6
50°	1308.3	1339.5	1351.3	1358.1	1354.2
52.5°	1230.3	1263.4	1273.2	1273.2	1276.1
55°	1156.1	1174.7	1191.3	1187.3	1196.1
57.5°	1072.2	1092.7	1103.4	1108.3	1112.2
60°	984.4	1012.7	1018.6	1016.6	1015.6
62.5°	893.7	919.0	930.8	923.0	929.8
65°	808.8	819.5	836.1	836.1	841.0
67.5°	719.0	730.8	741.5	739.5	731.7
70°	614.7	631.2	644.9	632.2	623.4
72.5°	522.9	536.6	538.6	528.8	529.8
75°	421.5	438.1	441.0	426.4	430.3
77.5°	325.9	343.4	346.4	330.7	330.7
80°	239.0	250.7	245.9	239.0	239.0
82.5°	155.1	162.9	158.1	162.0	158.1
85°	82.0	83.9	86.8	87.8	90.7
87.5°	27.3	30.2	29.3	26.3	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)