

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: P709582

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709582
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-HI
Description: ARS 1x4 Selectable High Output 80CRI Square, SET AT 4000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

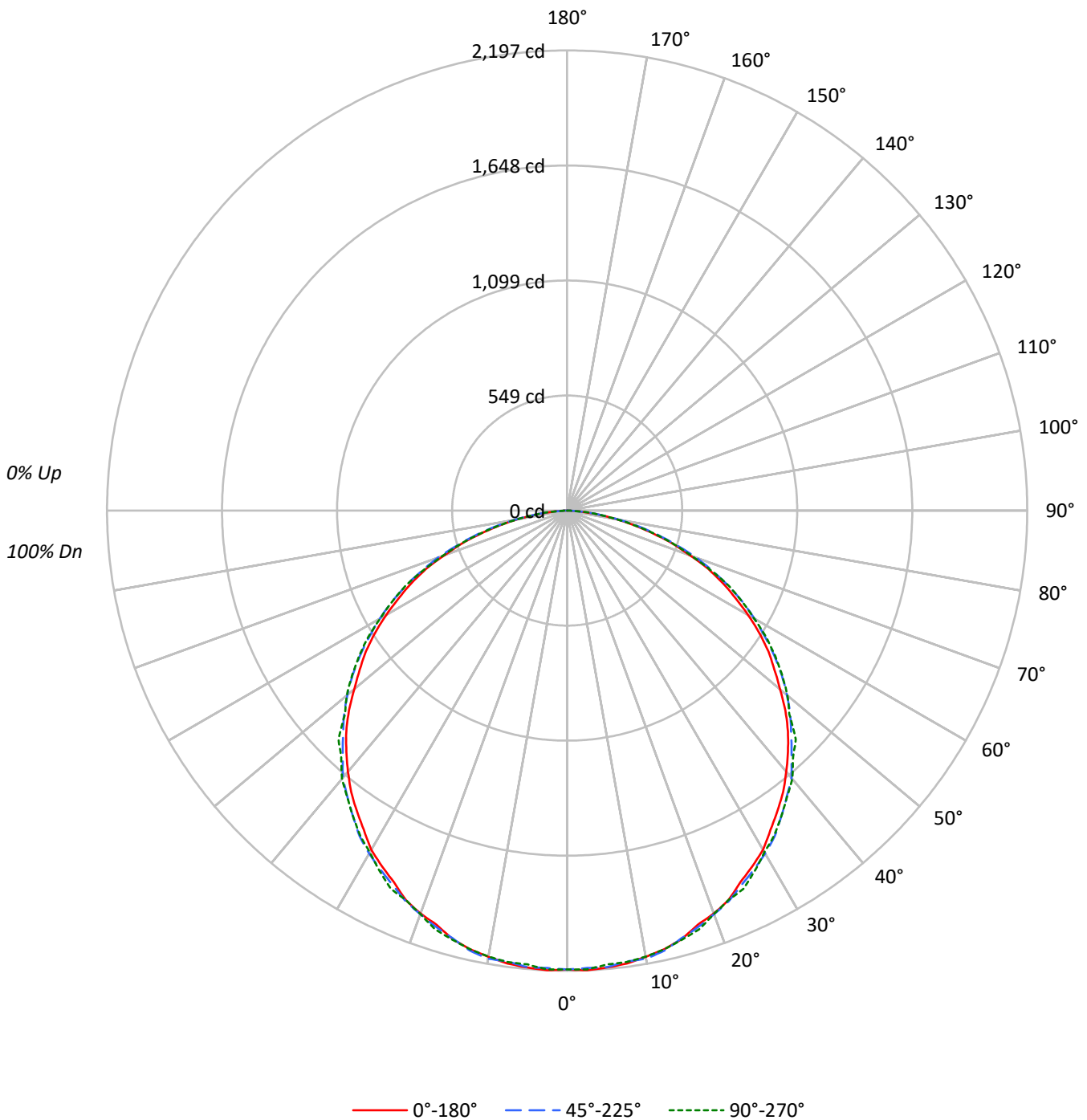
Lumens per Lamp: N/A
Luminaire Lumens: 6469.0 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 45
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°	7169	7169	7169
5°	7193	7187	7144
10°	7188	7217	7184
15°	7174	7160	7184
20°	7129	7140	7136
25°	7067	7117	7192
30°	7067	7145	7119
35°	6993	7119	7119
40°	6953	7118	7143
45°	6901	7002	7144
50°	6755	6977	6992
55°	6690	6893	6921
60°	6535	6761	6741
65°	6351	6566	6605
70°	5964	6258	6049
75°	5405	5655	5517
80°	4568	4700	4568
85°	3120	3308	3454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.4	3.2
10°-20°	597.9	9.2
20°-30°	909.4	14.1
30°-40°	1110.7	17.2
40°-50°	1167.2	18.0
50°-60°	1072.2	16.6
60°-70°	829.8	12.8
70°-80°	465.3	7.2
80°-90°	109.2	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°	1714.6	26.5
0°-40°	2825.4	43.7
0°-60°	5064.7	78.3
0°-90°	6469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2191	2191	2191	2191	2191	
5°	2190	2166	2188	2183	2175	208
15°	2118	2119	2114	2125	2121	596
25°	1957	1962	1971	1981	1992	905
35°	1750	1759	1782	1787	1782	1097
45°	1491	1499	1513	1522	1544	1147
55°	1173	1191	1208	1204	1213	1045
65°	820	831	848	848	853	808
75°	428	444	447	432	436	454
85°	83	85	88	89	92	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2190.9	2190.9	2190.9	2190.9	2190.9
2.5°	2196.8	2186.9	2185.9	2189.9	2192.9
5°	2189.9	2166.1	2187.9	2183.0	2175.0
7.5°	2181.0	2147.3	2171.1	2174.1	2174.1
10°	2163.2	2148.3	2172.1	2166.1	2162.2
12.5°	2144.4	2143.4	2151.3	2148.3	2144.4
15°	2117.6	2118.6	2113.7	2124.6	2120.6
17.5°	2073.1	2088.0	2084.0	2096.9	2096.9
20°	2047.4	2039.5	2050.4	2056.3	2049.4
22.5°	2012.8	1996.9	2017.7	2021.7	2012.8
25°	1957.3	1962.3	1971.2	1981.1	1992.0
27.5°	1914.8	1917.8	1931.6	1929.6	1939.5
30°	1870.3	1872.2	1891.0	1899.9	1884.1
32.5°	1806.9	1828.7	1844.5	1840.6	1839.6
35°	1750.5	1759.4	1782.2	1787.1	1782.2
37.5°	1694.1	1700.1	1722.8	1721.8	1724.8
40°	1627.8	1639.7	1666.4	1657.5	1672.3
42.5°	1560.5	1574.4	1585.3	1595.2	1596.2
45°	1491.3	1499.2	1513.0	1521.9	1543.7
47.5°	1413.1	1431.9	1445.7	1452.7	1438.8
50°	1327.0	1358.7	1370.5	1377.5	1373.5
52.5°	1247.8	1281.5	1291.4	1291.4	1294.3
55°	1172.6	1191.4	1208.2	1204.3	1213.2
57.5°	1087.5	1108.3	1119.2	1124.1	1128.1
60°	998.5	1027.2	1033.1	1031.1	1030.1
62.5°	906.4	932.2	944.0	936.1	943.0
65°	820.3	831.2	848.0	848.0	853.0
67.5°	729.3	741.2	752.1	750.1	742.2
70°	623.4	640.2	654.1	641.2	632.3
72.5°	530.4	544.3	546.2	536.3	537.3
75°	427.5	444.3	447.3	432.4	436.4
77.5°	330.5	348.3	351.3	335.5	335.5
80°	242.4	254.3	249.4	242.4	242.4
82.5°	157.3	165.3	160.3	164.3	160.3
85°	83.1	85.1	88.1	89.1	92.0
87.5°	27.7	30.7	29.7	26.7	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)