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: P709637

Luminaire Tested: **24ARS-L3C3-HO-SQR-UNV-4000K-LOW**

Issue Date: 9/22/2023

Report Generated By 670246072 / DESKTOP-MV3F9LC

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Test Information

Test Method:	LM-79-08
Report Number:	P709637
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-25)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/22/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	24ARS-L3C3-HO-SQR-UNV-4000K-LOW
Description:	ARS 2x4 Selectable High Output 80CRI Square, SET AT 4000K AND, LOW LUMEN OUTPUT SETTINGS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6609.0 lumens
Efficiency:	N/A
Efficacy:	145.9 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.28 / 1.4
Luminous Opening:	Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type:	Direct
Input Watts (W):	45.3
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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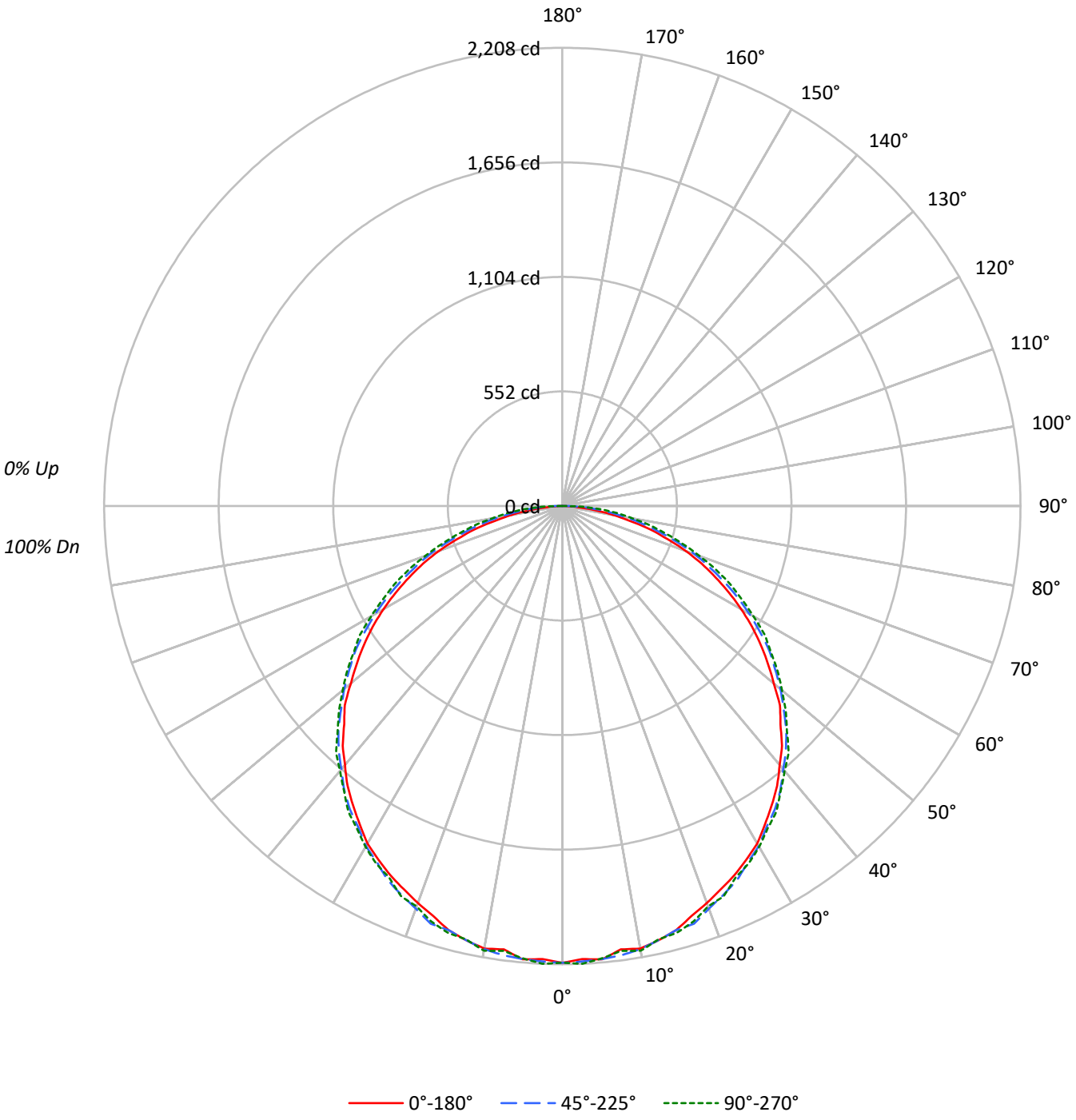
Luminous Intensity Polar Plot



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3345	3345	3345
5°	3346	3344	3338
10°	3342	3346	3359
15°	3330	3330	3351
20°	3293	3339	3322
25°	3292	3337	3312
30°	3297	3321	3328
35°	3265	3312	3335
40°	3233	3286	3306
45°	3194	3280	3290
50°	3146	3243	3266
55°	3093	3228	3249
60°	3028	3164	3236
65°	2934	3087	3209
70°	2815	3014	3116
75°	2585	2854	3041
80°	2179	2685	3016
85°	1477	2675	3317

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	3.2
10°-20°	599.4	9.1
20°-30°	913.8	13.8
30°-40°	1113.8	16.9
40°-50°	1171.5	17.7
50°-60°	1080.4	16.3
60°-70°	848.5	12.8
70°-80°	511.4	7.7
80°-90°	161.8	2.4
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°	1721.6	26.0
0°-40°	2835.4	42.9
0°-60°	5087.4	77.0
0°-90°	6609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2201	2201	2201	2201	2201	
5°	2193	2195	2192	2203	2188	207
15°	2116	2134	2116	2132	2129	595
25°	1963	1983	1990	1978	1975	905
35°	1760	1777	1785	1790	1798	1101
45°	1486	1503	1526	1537	1531	1150
55°	1167	1198	1218	1228	1226	1043
65°	816	834	858	883	892	807
75°	440	452	486	511	518	461
85°	85	112	153	182	190	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2201.1	2201.1	2201.1	2201.1	*2201.1*
2.5°	*2185.1*	*2193.1*	*2197.1*	*2202.1*	*2208.0*
5°	2193.1	2195.1	2192.1	2203.1	*2188.1*
7.5°	2155.3	2189.1	2183.1	2185.1	*2162.2*
10°	2165.2	2162.2	2168.2	2175.2	*2176.2*
12.5°	2143.3	2148.3	2142.3	2160.2	*2139.3*
15°	2116.4	2134.3	2116.4	2132.4	*2129.4*
17.5°	2070.6	2076.6	2110.4	2095.5	*2099.5*
20°	2035.7	2061.6	2064.6	2062.6	*2053.7*
22.5°	1997.9	2017.8	2027.8	2037.7	*2033.8*
25°	1963.0	1983.0	1989.9	1978.0	*1975.0*
27.5°	1920.2	1929.2	1935.2	1956.1	*1943.1*
30°	1878.4	1878.4	1892.3	1900.3	*1896.3*
32.5°	1817.6	1837.6	1832.6	1841.5	*1842.5*
35°	1759.9	1776.8	1784.8	1789.7	*1797.7*
37.5°	1700.1	1712.1	1726.0	1732.0	*1729.0*
40°	1629.4	1639.4	1656.3	1668.2	*1666.2*
42.5°	1566.6	1582.6	1594.5	1604.5	*1614.5*
45°	1486.0	1502.9	1525.8	1536.8	*1530.8*
47.5°	1422.2	1428.2	1446.1	1457.1	*1460.1*
50°	1330.6	1364.5	1371.4	1393.4	*1381.4*
52.5°	1248.9	1279.8	1292.8	1308.7	*1307.7*
55°	1167.3	1198.1	1218.1	1228.0	*1226.0*
57.5°	1083.6	1108.5	1129.4	1143.4	*1156.3*
60°	996.0	1017.9	1040.8	1058.7	*1064.7*
62.5°	905.3	930.2	950.1	981.0	*975.0*
65°	815.7	833.6	858.5	883.4	*892.4*
67.5°	726.1	745.0	765.9	789.8	*800.8*
70°	633.4	649.4	678.3	694.2	*701.2*
72.5°	530.8	552.8	582.6	604.5	*609.5*
75°	440.2	452.2	486.0	510.9	*517.9*
77.5°	335.6	363.5	397.4	422.3	*434.2*
80°	249.0	272.9	306.8	334.6	*344.6*
82.5°	166.3	188.2	226.1	259.9	*267.9*
85°	84.7	112.5	153.4	182.3	*190.2*
87.5°	28.9	52.8	82.7	95.6	*99.6*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)