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: P709635

Luminaire Tested: **24ARS-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:	P709635
	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-3500K-MID
Description:	ARS 2x4 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:	6900.0 lumens
Efficiency:	N/A
Efficacy:	130.7 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):	52.8
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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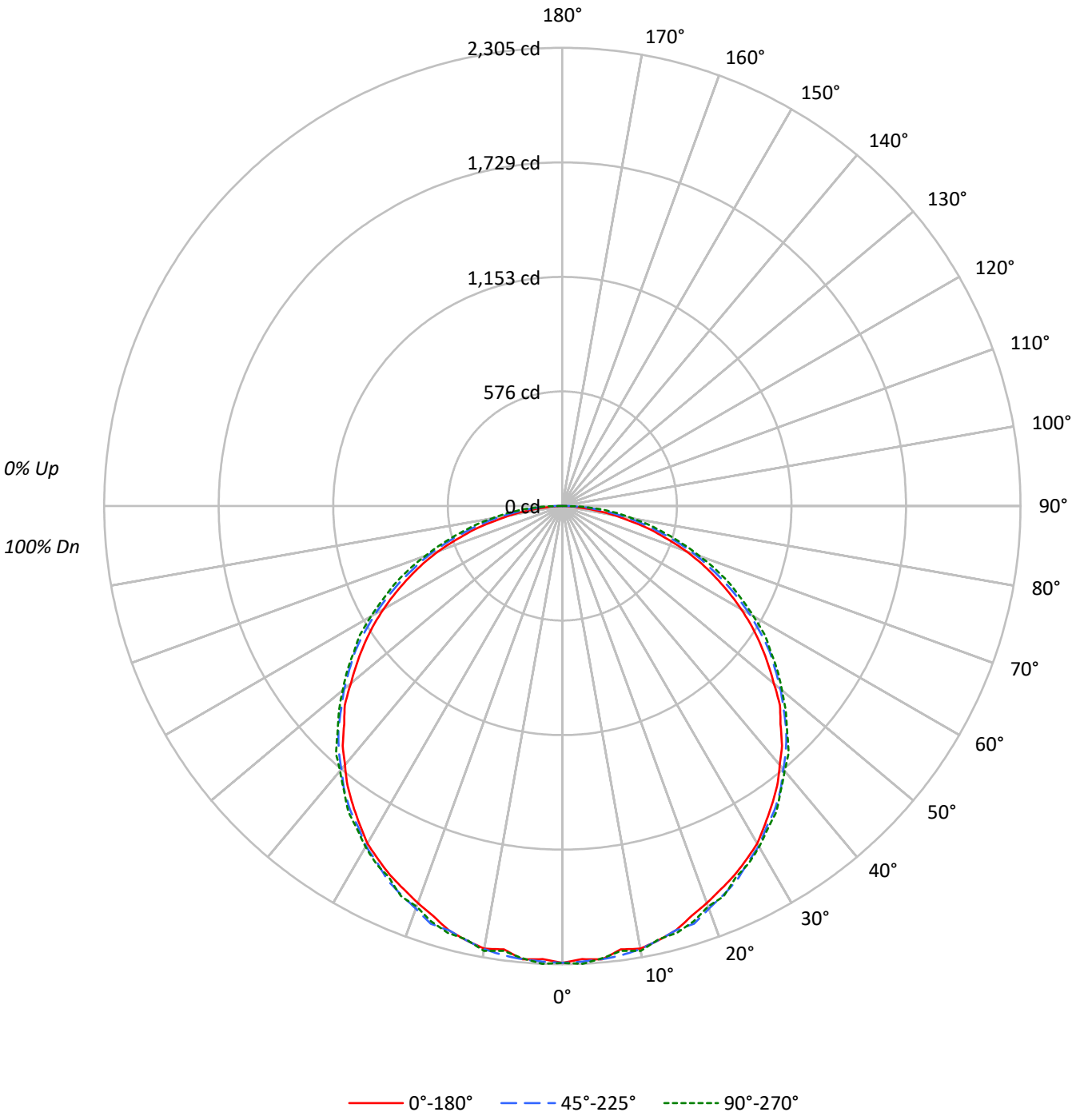
Luminous Intensity Polar Plot



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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°	3493	3493	3493
5°	3493	3492	3485
10°	3489	3494	3506
15°	3477	3477	3498
20°	3438	3486	3468
25°	3437	3484	3458
30°	3442	3467	3475
35°	3409	3457	3482
40°	3375	3431	3451
45°	3335	3424	3435
50°	3285	3386	3410
55°	3229	3370	3392
60°	3161	3303	3379
65°	3063	3223	3351
70°	2939	3147	3253
75°	2699	2980	3175
80°	2276	2803	3149
85°	1542	2792	3463

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.6	3.2
10°-20°	625.7	9.1
20°-30°	954.0	13.8
30°-40°	1162.9	16.9
40°-50°	1223.1	17.7
50°-60°	1127.9	16.3
60°-70°	885.8	12.8
70°-80°	534.0	7.7
80°-90°	168.9	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°	1797.4	26.0
0°-40°	2960.3	42.9
0°-60°	5311.4	77.0
0°-90°	6900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2298	2298	2298	2298	2298	
5°	2290	2292	2289	2300	2284	216
15°	2210	2228	2210	2226	2223	622
25°	2050	2070	2078	2065	2062	945
35°	1837	1855	1863	1868	1877	1150
45°	1551	1569	1593	1604	1598	1200
55°	1219	1251	1272	1282	1280	1089
65°	852	870	896	922	932	843
75°	460	472	507	533	541	481
85°	88	118	160	190	199	115
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2298.0	2298.0	2298.0	2298.0	*2298.0*
2.5°	*2281.4*	*2289.7*	*2293.8*	*2299.0*	*2305.3*
5°	2289.7	2291.8	2288.6	2300.1	*2284.5*
7.5°	2250.2	2285.5	2279.3	2281.4	*2257.4*
10°	2260.6	2257.4	2263.7	2271.0	*2272.0*
12.5°	2237.7	2242.9	2236.6	2255.4	*2233.5*
15°	2209.6	2228.3	2209.6	2226.2	*2223.1*
17.5°	2161.8	2168.0	2203.4	2187.8	*2191.9*
20°	2125.4	2152.4	2155.5	2153.5	*2144.1*
22.5°	2085.9	2106.7	2117.1	2127.5	*2123.3*
25°	2049.5	2070.3	2077.6	2065.1	*2062.0*
27.5°	2004.8	2014.1	2020.4	2042.2	*2028.7*
30°	1961.1	1961.1	1975.6	1984.0	*1979.8*
32.5°	1897.7	1918.5	1913.3	1922.6	*1923.7*
35°	1837.4	1855.0	1863.3	1868.5	*1876.9*
37.5°	1775.0	1787.4	1802.0	1808.2	*1805.1*
40°	1701.1	1711.5	1729.2	1741.7	*1739.6*
42.5°	1635.6	1652.3	1664.7	1675.1	*1685.5*
45°	1551.4	1569.1	1593.0	1604.4	*1598.2*
47.5°	1484.9	1491.1	1509.8	1521.2	*1524.4*
50°	1389.2	1424.5	1431.8	1454.7	*1442.2*
52.5°	1303.9	1336.2	1349.7	1366.3	*1365.3*
55°	1218.7	1250.9	1271.7	1282.1	*1280.0*
57.5°	1131.3	1157.3	1179.2	1193.7	*1207.2*
60°	1039.8	1062.7	1086.6	1105.3	*1111.6*
62.5°	945.2	971.2	992.0	1024.2	*1018.0*
65°	851.6	870.3	896.3	922.3	*931.7*
67.5°	758.0	777.8	799.6	824.6	*836.0*
70°	661.3	678.0	708.1	724.8	*732.0*
72.5°	554.2	577.1	608.3	631.2	*636.4*
75°	459.6	472.1	507.4	533.4	*540.7*
77.5°	350.4	379.5	414.9	440.9	*453.4*
80°	260.0	284.9	320.3	349.4	*359.8*
82.5°	173.6	196.5	236.0	271.4	*279.7*
85°	88.4	117.5	160.1	190.3	*198.6*
87.5°	30.2	55.1	86.3	99.8	*104.0*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)