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: P709644

Luminaire Tested: **24ARS-L3C3-HO-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:	P709644
	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-UNV-3500K-MID
Description:	ARS 2x4 Selectable High Output 80CRI Round, SET AT 3500K AND, MID LUMEN OUTPUT SETTINGS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6971.0 lumens
Efficiency:	N/A
Efficacy:	130.3 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):	53.5
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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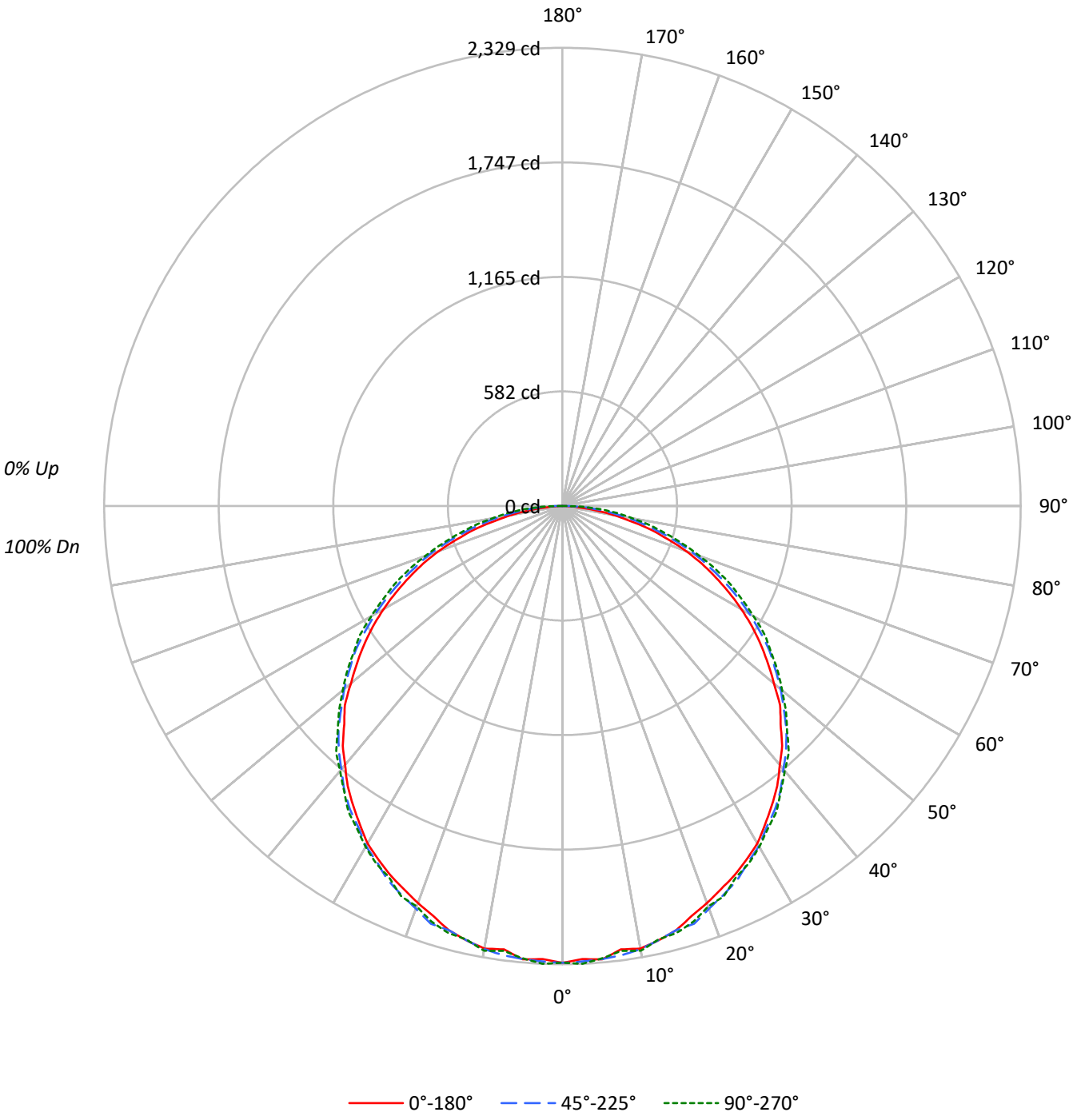
Luminous Intensity Polar Plot



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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°	3529	3529	3529
5°	3529	3528	3521
10°	3525	3530	3543
15°	3513	3513	3534
20°	3473	3522	3504
25°	3472	3520	3494
30°	3477	3503	3510
35°	3444	3493	3518
40°	3410	3466	3487
45°	3369	3459	3470
50°	3319	3420	3445
55°	3262	3404	3427
60°	3193	3337	3414
65°	3094	3256	3385
70°	2969	3179	3287
75°	2727	3011	3208
80°	2298	2832	3182
85°	1557	2822	3498

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	3.2
10°-20°	632.2	9.1
20°-30°	963.8	13.8
30°-40°	1174.8	16.9
40°-50°	1235.7	17.7
50°-60°	1139.6	16.3
60°-70°	894.9	12.8
70°-80°	539.4	7.7
80°-90°	170.6	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°	1815.9	26.0
0°-40°	2990.7	42.9
0°-60°	5366.0	77.0
0°-90°	6971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2322	2322	2322	2322	2322	
5°	2313	2315	2312	2324	2308	219
15°	2232	2251	2232	2249	2246	628
25°	2071	2092	2099	2086	2083	954
35°	1856	1874	1882	1888	1896	1162
45°	1567	1585	1609	1621	1615	1213
55°	1231	1264	1285	1295	1293	1100
65°	860	879	906	932	941	851
75°	464	477	513	539	546	486
85°	89	119	162	192	201	116
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2321.6	2321.6	2321.6	2321.6	*2321.6*
2.5°	*2304.8*	*2313.2*	*2317.4*	*2322.7*	*2329.0*
5°	2313.2	2315.3	2312.2	2323.7	*2308.0*
7.5°	2273.3	2309.0	2302.7	2304.8	*2280.7*
10°	2283.8	2280.7	2287.0	2294.3	*2295.4*
12.5°	2260.7	2266.0	2259.7	2278.6	*2256.5*
15°	2232.3	2251.3	2232.3	2249.2	*2246.0*
17.5°	2184.0	2190.3	2226.0	2210.3	*2214.5*
20°	2147.3	2174.6	2177.7	2175.6	*2166.2*
22.5°	2107.3	2128.3	2138.8	2149.4	*2145.2*
25°	2070.6	2091.6	2098.9	2086.3	*2083.2*
27.5°	2025.4	2034.8	2041.2	2063.2	*2049.6*
30°	1981.3	1981.3	1996.0	2004.4	*2000.2*
32.5°	1917.2	1938.2	1932.9	1942.4	*1943.5*
35°	1856.3	1874.1	1882.5	1887.8	*1896.2*
37.5°	1793.2	1805.8	1820.5	1826.8	*1823.7*
40°	1718.6	1729.1	1747.0	1759.6	*1757.5*
42.5°	1652.5	1669.3	1681.9	1692.4	*1702.9*
45°	1567.4	1585.2	1609.4	1620.9	*1614.6*
47.5°	1500.1	1506.4	1525.3	1536.9	*1540.1*
50°	1403.5	1439.2	1446.6	1469.7	*1457.1*
52.5°	1317.3	1349.9	1363.6	1380.4	*1379.3*
55°	1231.2	1263.8	1284.8	1295.3	*1293.2*
57.5°	1143.0	1169.2	1191.3	1206.0	*1219.6*
60°	1050.5	1073.6	1097.8	1116.7	*1123.0*
62.5°	954.9	981.2	1002.2	1034.8	*1028.5*
65°	860.4	879.3	905.5	931.8	*941.3*
67.5°	765.8	785.8	807.8	833.1	*844.6*
70°	668.1	684.9	715.4	732.2	*739.6*
72.5°	559.9	583.0	614.6	637.7	*642.9*
75°	464.3	476.9	512.7	538.9	*546.3*
77.5°	354.0	383.4	419.2	445.4	*458.0*
80°	262.6	287.8	323.6	353.0	*363.5*
82.5°	175.4	198.5	238.5	274.2	*282.6*
85°	89.3	118.7	161.8	192.2	*200.6*
87.5°	30.5	55.7	87.2	100.8	*105.1*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)