Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: METALUX

Report Number: P1559224

Luminaire Tested: 4NWS3C5-4500-MID

Issue Date: 9/2/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1559224
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2607-872-8)
Test Lab:	INNOVATION CENTER
Issue Date:	9/2/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	4NWS3C5-4500-MID
Description:	4ft WRAP Med Lumen 5 CCT SEL NUV 0-10V DIM 4500K
Light Source:	
Ballast/Driver:	-

Summary

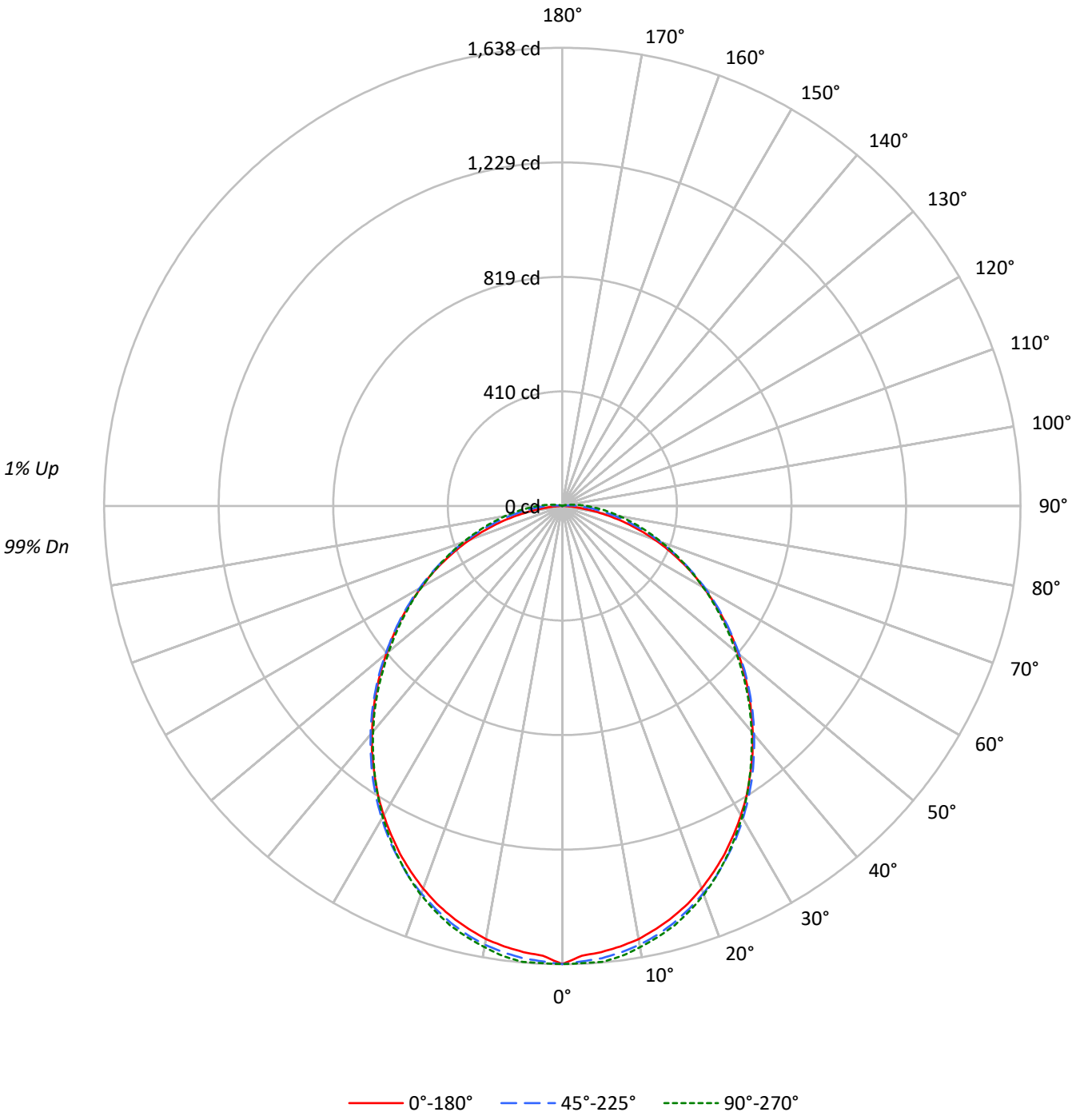
Lumens per Lamp:	N/A
Luminaire Lumens:	4250.3 lumens
Efficiency:	N/A
Efficacy:	137.5 lumens/watt
Spacing Criteria (0/90/45):	1.17 / 1.17 / 1.29
Luminous Opening:	Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type:	Direct
Input Watts (W):	30.9
Input Voltage (V):	
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	
Total Harmonic Distortion (THDi):	
Frequency (hertz):	60
Stabilization Time:	HR
Operation Time:	HR
Ambient Temperature (°C):	NR
Test Distance:	24 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	101	101	101	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	84	78	96	89	82	77	85	80	75	81	77	73	78	75	71	69
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	69	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13354	13354	13354
5°	13103	13284	13392
10°	13016	13186	13261
15°	12847	13020	13097
20°	12628	12785	12835
25°	12346	12495	12479
30°	12023	12155	12093
35°	11656	11771	11648
40°	11275	11354	11205
45°	10860	10926	10746
50°	10414	10476	10268
55°	9989	10047	9848
60°	9502	9635	9489
65°	9005	9212	9163
70°	8345	8836	8972
75°	7429	8441	9011
80°	6020	8373	9725
85°	3920	10067	13145

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 87.5°
Luminance: 20901 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	3.6
10°-20°	436.0	10.3
20°-30°	641.1	15.1
30°-40°	740.8	17.4
40°-50°	732.1	17.2
50°-60°	633.6	14.9
60°-70°	474.3	11.2
70°-80°	283.9	6.7
80°-90°	114.8	2.7
90°-100°	29.8	0.7
100°-110°	7.5	0.2
110°-120°	1.9	0.0
120°-130°	0.1	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°	1231.6	29.0
0°-40°	1972.4	46.4
0°-60°	3338.0	78.5
0°-90°	4211.0	99.1
90°-120°	39.1	0.9
90°-150°	39.2	0.9
90°-180°	39.0	0.9
0°-180°	4250.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1601	1653	1623	1619	1636	152
15°	1522	1571	1542	1543	1551	429
25°	1372	1417	1389	1386	1387	632
35°	1171	1208	1182	1179	1170	733
45°	942	969	947	942	932	726
55°	703	723	707	704	693	628
65°	467	480	477	483	475	462
75°	236	251	268	288	286	249
85°	42	69	108	136	140	53
90°	0	20	55	82	88	2
95°	1	5	24	45	50	1
105°	1	1	6	12	15	1
115°	2	1	2	2	3	2
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1637.6	1637.6	1637.6	1637.6	1637.6
2.5°	1608.9	1659.8	1629.4	1626.1	1636.0
5°	1600.7	1653.3	1622.9	1618.7	1636.0
7.5°	1588.3	1640.9	1609.7	1605.6	1622.9
10°	1571.9	1622.9	1592.4	1589.2	1601.5
12.5°	1548.1	1600.7	1570.3	1567.0	1578.5
15°	1521.8	1571.1	1542.3	1543.1	1551.4
17.5°	1491.4	1538.2	1509.5	1510.3	1516.9
20°	1455.2	1502.1	1473.3	1471.7	1479.1
22.5°	1415.0	1461.8	1434.7	1429.8	1434.7
25°	1372.2	1417.4	1388.7	1386.2	1387.0
27.5°	1325.4	1368.9	1342.7	1338.5	1336.1
30°	1276.9	1318.0	1290.9	1286.8	1284.3
32.5°	1226.0	1263.8	1237.5	1233.4	1227.6
35°	1170.9	1207.9	1182.4	1179.1	1170.1
37.5°	1116.7	1149.6	1124.9	1122.4	1110.9
40°	1059.2	1090.4	1066.6	1062.5	1052.6
42.5°	1000.0	1030.4	1007.4	1002.5	992.6
45°	941.7	968.8	947.4	942.5	931.8
47.5°	880.9	907.2	887.4	882.5	869.4
50°	820.9	847.2	825.8	821.7	809.4
52.5°	762.5	784.7	765.8	762.5	751.0
55°	702.6	723.1	706.7	704.2	692.7
57.5°	642.6	660.6	648.3	647.5	637.6
60°	582.6	600.7	590.8	590.8	581.8
62.5°	526.7	540.7	533.3	537.4	527.5
65°	466.7	479.9	477.4	483.2	474.9
67.5°	408.4	422.4	423.2	433.0	425.6
70°	350.0	364.0	370.6	381.3	376.3
72.5°	291.7	306.5	318.8	333.6	329.5
75°	235.8	251.4	267.9	287.6	286.0
77.5°	179.1	198.9	221.9	244.9	244.9
80°	128.2	150.4	178.3	205.4	207.1
82.5°	81.3	106.0	140.5	169.3	171.7
85°	41.9	69.0	107.6	136.4	140.5
87.5°	13.1	40.3	78.1	106.8	111.8
90°	0.0	20.5	55.1	82.2	87.9
92.5°	0.0	9.9	37.0	61.6	67.4
95°	0.8	4.9	23.8	45.2	50.1
97.5°	0.8	2.5	15.6	32.0	37.0
100°	0.8	1.6	10.7	23.0	27.1
102.5°	0.8	0.8	7.4	16.4	19.7
105°	0.8	0.8	5.8	12.3	14.8
107.5°	1.6	0.8	3.3	9.0	10.7
110°	1.6	0.8	1.6	6.6	8.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	*0.8*	0.8	4.1	5.8
115°	1.6	*0.8*	1.6	2.5	3.3
117.5°	1.6	*0.8*	1.6	0.8	1.6
120°	1.6	*0.8*	0.8	0.8	0.8
122.5°	0.0	*0.0*	0.0	0.0	0.0
125°	0.0	*0.0*	0.0	0.0	0.0
127.5°	0.0	*0.0*	0.0	0.0	0.0
130°	0.0	*0.0*	0.0	0.0	0.0
132.5°	0.0	*0.0*	0.0	0.0	0.0
135°	0.0	*0.0*	0.0	0.0	0.0
137.5°	0.0	*0.0*	0.0	0.0	0.0
140°	0.0	*0.0*	0.0	0.0	0.0
142.5°	0.0	*0.0*	0.0	0.0	0.0
145°	0.0	*0.0*	0.0	0.0	0.0
147.5°	0.0	*0.0*	0.0	0.0	0.0
150°	0.0	*0.0*	0.0	0.0	0.0
152.5°	0.0	*0.0*	0.0	0.0	0.0
155°	0.0	*0.0*	0.0	0.0	0.0
157.5°	0.0	*0.0*	0.0	0.0	0.0
160°	0.0	*0.0*	0.0	0.0	0.0
162.5°	0.0	*0.0*	0.0	0.0	0.0
165°	0.0	*0.0*	0.0	0.0	0.0
167.5°	0.0	*0.0*	0.0	0.0	0.0
170°	0.0	*0.0*	0.0	0.0	0.0
172.5°	0.0	*0.0*	0.0	0.0	0.0
175°	0.0	*0.0*	0.0	0.0	0.0
177.5°	0.0	*0.0*	0.0	0.0	0.0
180°	0.0	*0.0*	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
	Ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
	Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
	Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	19.92	21.52	20.30	21.85	22.19	19.80	21.39	20.18	21.73	22.07
	3H	21.61	23.05	22.00	23.40	23.78	21.66	23.11	22.05	23.45	23.84
	4H	22.20	23.56	22.61	23.93	24.33	22.45	23.81	22.86	24.18	24.57
	6H	22.59	23.85	23.02	24.24	24.65	23.17	24.43	23.60	24.82	25.23
	8H	22.69	23.90	23.13	24.30	24.72	23.51	24.71	23.95	25.12	25.54
	12H	22.74	23.89	23.18	24.29	24.75	23.85	25.01	24.30	25.41	25.86
4H	2H	20.52	21.88	20.93	22.25	22.64	20.42	21.78	20.83	22.15	22.55
	3H	22.44	23.59	22.87	24.00	24.43	22.52	23.67	22.95	24.08	24.51
	4H	23.17	24.21	23.62	24.64	25.10	23.47	24.50	23.91	24.94	25.39
	6H	23.70	24.61	24.17	25.06	25.54	24.36	25.27	24.83	25.73	26.21
	8H	23.84	24.69	24.32	25.15	25.64	24.78	25.63	25.26	26.09	26.58
	12H	23.93	24.69	24.42	25.19	25.68	25.23	25.99	25.72	26.48	26.98
8H	4H	23.53	24.38	24.01	24.84	25.33	23.79	24.65	24.27	25.11	25.59
	6H	24.20	24.91	24.71	25.41	25.91	24.86	25.58	25.37	26.08	26.58
	8H	24.42	25.06	24.95	25.59	26.09	25.42	26.06	25.94	26.58	27.09
	12H	24.58	25.15	25.10	25.66	26.24	26.03	26.60	26.55	27.11	27.69
12H	4H	23.60	24.36	24.09	24.86	25.35	23.83	24.59	24.32	25.09	25.58
	6H	24.31	24.95	24.83	25.47	25.98	24.93	25.57	25.46	26.10	26.60
	8H	24.61	25.18	25.13	25.69	26.27	25.57	26.14	26.09	26.64	27.22

END OF REPORT