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: P1559219

Luminaire Tested: 4NWS3C5-4500-LOW

Issue Date: 9/2/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1559219
	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-LOW
Description:	4ft WRAP Lo Lumen 5 CCT SEL NUV 0-10V DIM 4500K
Light Source:	
Ballast/Driver:	-

Summary

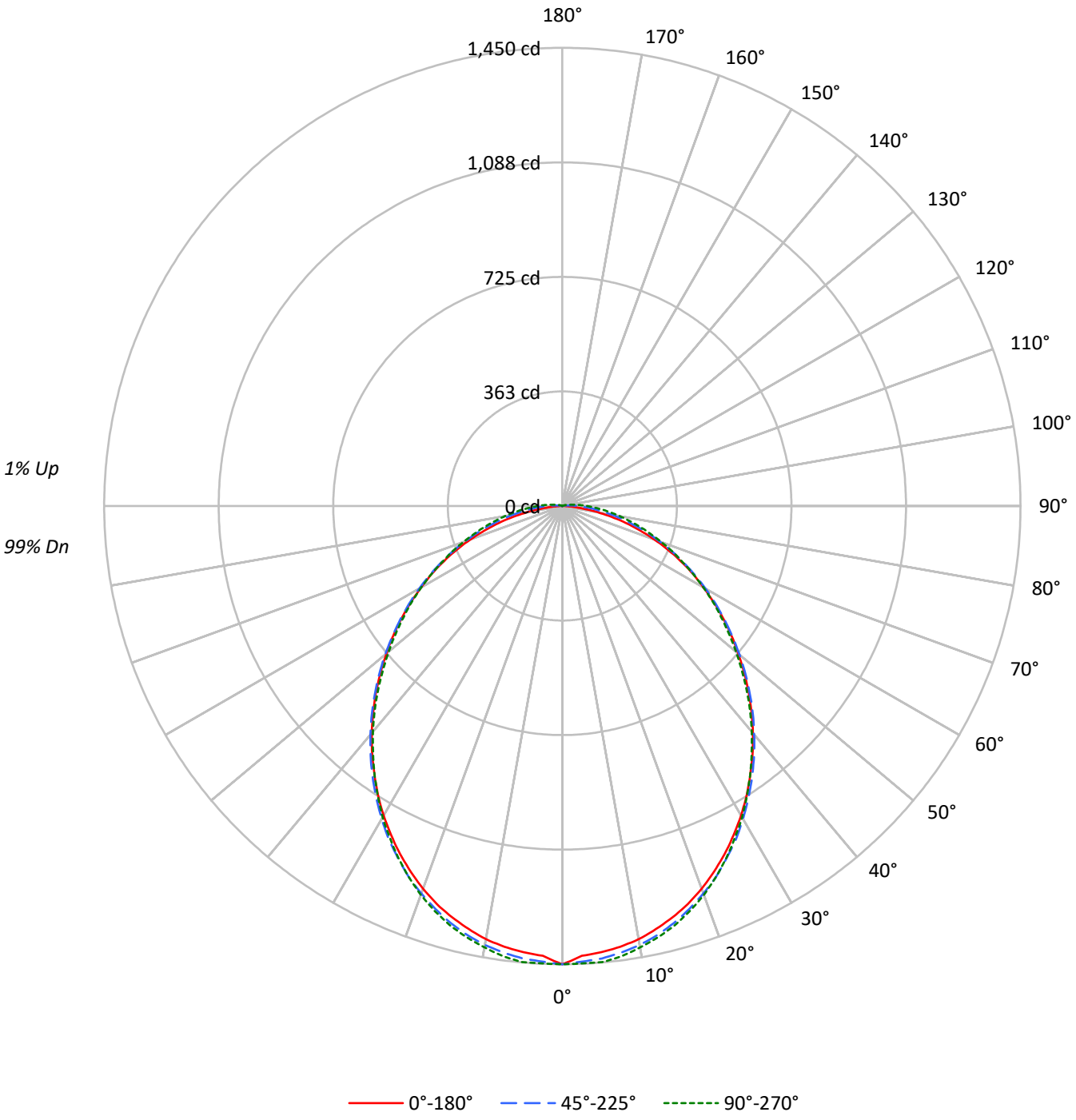
Lumens per Lamp:	N/A
Luminaire Lumens:	3764.3 lumens
Efficiency:	N/A
Efficacy:	138.9 lumens/watt
Spacing Criteria (0/90/45):	1.17 / 1.17 / 1.29
Luminous Opening:	Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type:	Direct
Input Watts (W):	27.1
Input Voltage (V):	
Input Current (Ain):	NR
Voltage Rise (V):	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°	11827	11827	11827
5°	11604	11765	11860
10°	11528	11679	11745
15°	11378	11532	11600
20°	11184	11323	11367
25°	10935	11066	11052
30°	10649	10765	10711
35°	10323	10425	10316
40°	9986	10055	9923
45°	9618	9677	9518
50°	9223	9279	9093
55°	8846	8898	8722
60°	8415	8533	8402
65°	7977	8158	8116
70°	7391	7825	7947
75°	6582	7473	7981
80°	5330	7415	8612
85°	3471	8916	11639

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 87.5°
Luminance: 18508 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	3.6
10°-20°	386.2	10.3
20°-30°	567.8	15.1
30°-40°	656.1	17.4
40°-50°	648.3	17.2
50°-60°	561.1	14.9
60°-70°	420.0	11.2
70°-80°	251.4	6.7
80°-90°	101.7	2.7
90°-100°	26.4	0.7
100°-110°	6.6	0.2
110°-120°	1.7	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°	1090.8	29.0
0°-40°	1746.9	46.4
0°-60°	2956.3	78.5
0°-90°	3729.5	99.1
90°-120°	34.7	0.9
90°-150°	34.8	0.9
90°-180°	35.0	0.9
0°-180°	3764.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1418	1464	1437	1434	1449	135
15°	1348	1391	1366	1367	1374	380
25°	1215	1255	1230	1228	1228	559
35°	1037	1070	1047	1044	1036	649
45°	834	858	839	835	825	643
55°	622	640	626	624	614	556
65°	413	425	423	428	421	409
75°	209	223	237	255	253	221
85°	37	61	95	121	124	47
90°	0	18	49	73	78	2
95°	1	4	21	40	44	0
105°	1	1	5	11	13	1
115°	2	1	2	2	3	1
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°	1450.4	1450.4	1450.4	1450.4	1450.4
2.5°	1424.9	1470.0	1443.1	1440.2	1448.9
5°	1417.6	1464.2	1437.3	1433.7	1448.9
7.5°	1406.7	1453.3	1425.6	1422.0	1437.3
10°	1392.2	1437.3	1410.4	1407.5	1418.4
12.5°	1371.1	1417.6	1390.7	1387.8	1398.0
15°	1347.8	1391.4	1366.0	1366.7	1374.0
17.5°	1320.9	1362.3	1336.9	1337.6	1343.4
20°	1288.8	1330.3	1304.8	1303.4	1309.9
22.5°	1253.2	1294.7	1270.6	1266.3	1270.6
25°	1215.3	1255.4	1229.9	1227.7	1228.4
27.5°	1173.8	1212.4	1189.1	1185.5	1183.3
30°	1130.9	1167.3	1143.3	1139.6	1137.5
32.5°	1085.8	1119.3	1096.0	1092.3	1087.2
35°	1037.0	1069.8	1047.2	1044.3	1036.3
37.5°	989.0	1018.1	996.3	994.1	983.9
40°	938.1	965.7	944.6	941.0	932.2
42.5°	885.7	912.6	892.2	887.8	879.1
45°	834.0	858.0	839.1	834.7	825.3
47.5°	780.1	803.4	786.0	781.6	770.0
50°	727.0	750.3	731.4	727.7	716.8
52.5°	675.3	695.0	678.3	675.3	665.2
55°	622.2	640.4	625.9	623.7	613.5
57.5°	569.1	585.1	574.2	573.5	564.7
60°	516.0	532.0	523.2	523.2	515.2
62.5°	466.5	478.9	472.3	475.9	467.2
65°	413.4	425.0	422.8	427.9	420.6
67.5°	361.7	374.1	374.8	383.5	377.0
70°	310.0	322.4	328.2	337.7	333.3
72.5°	258.3	271.4	282.4	295.5	291.8
75°	208.9	222.7	237.2	254.7	253.3
77.5°	158.6	176.1	196.5	216.9	216.9
80°	113.5	133.2	157.9	181.9	183.4
82.5°	72.0	93.9	124.4	149.9	152.1
85°	37.1	61.1	95.3	120.8	124.4
87.5°	11.6	35.7	69.1	94.6	99.0
90°	0.0	18.2	48.8	72.8	77.9
92.5°	0.0	8.7	32.7	54.6	59.7
95°	0.7	4.4	21.1	40.0	44.4
97.5°	0.7	2.2	13.8	28.4	32.7
100°	0.7	1.5	9.5	20.4	24.0
102.5°	0.7	0.7	6.5	14.6	17.5
105°	0.7	0.7	5.1	10.9	13.1
107.5°	1.5	0.7	2.9	8.0	9.5
110°	1.5	0.7	1.5	5.8	7.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	*0.7*	0.7	3.6	5.1
115°	1.5	*0.7*	1.5	2.2	2.9
117.5°	1.5	*0.7*	1.5	0.7	1.5
120°	1.5	*0.7*	0.7	0.7	0.7
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	19.50	21.10	19.88	21.43	21.77	19.38	20.97	19.76	21.31	21.65
	3H	21.18	22.63	21.58	22.97	23.36	21.24	22.68	21.63	23.03	23.41
	4H	21.78	23.14	22.19	23.51	23.91	22.03	23.39	22.44	23.75	24.15
	6H	22.17	23.43	22.59	23.81	24.23	22.75	24.01	23.18	24.40	24.81
	8H	22.27	23.47	22.71	23.88	24.30	23.08	24.29	23.52	24.70	25.12
	12H	22.32	23.47	22.76	23.87	24.32	23.43	24.59	23.88	24.99	25.44
4H	2H	20.10	21.46	20.51	21.82	22.22	20.00	21.36	20.41	21.73	22.13
	3H	22.02	23.16	22.45	23.58	24.00	22.10	23.25	22.53	23.66	24.08
	4H	22.75	23.79	23.20	24.22	24.68	23.05	24.08	23.49	24.51	24.97
	6H	23.27	24.18	23.74	24.64	25.12	23.94	24.85	24.41	25.31	25.79
	8H	23.42	24.27	23.90	24.73	25.22	24.36	25.21	24.83	25.67	26.16
	12H	23.51	24.27	24.00	24.76	25.26	24.80	25.57	25.30	26.06	26.55
8H	4H	23.11	23.96	23.59	24.42	24.91	23.37	24.22	23.85	24.68	25.17
	6H	23.78	24.49	24.28	24.99	25.49	24.44	25.15	24.95	25.66	26.15
	8H	24.00	24.64	24.53	25.16	25.67	24.99	25.63	25.52	26.16	26.66
	12H	24.16	24.73	24.68	25.24	25.82	25.61	26.18	26.13	26.69	27.27
12H	4H	23.18	23.94	23.67	24.44	24.93	23.41	24.17	23.90	24.66	25.15
	6H	23.89	24.53	24.41	25.05	25.56	24.51	25.15	25.03	25.67	26.18
	8H	24.19	24.76	24.71	25.27	25.85	25.15	25.71	25.67	26.22	26.80

END OF REPORT