

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: P1559214

Luminaire Tested: 4NWS3C5-NUV-High-45K

Issue Date: 9/2/2026

Test Information

Test Method: LM-79-2019
Report Number: P1559214
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-NUV-High-45K
Description: 4ft WRAP High Lumen 5 CCT SEL NUV 0-10V DIM 4500K

Light Source:
Ballast/Driver: -

Summary

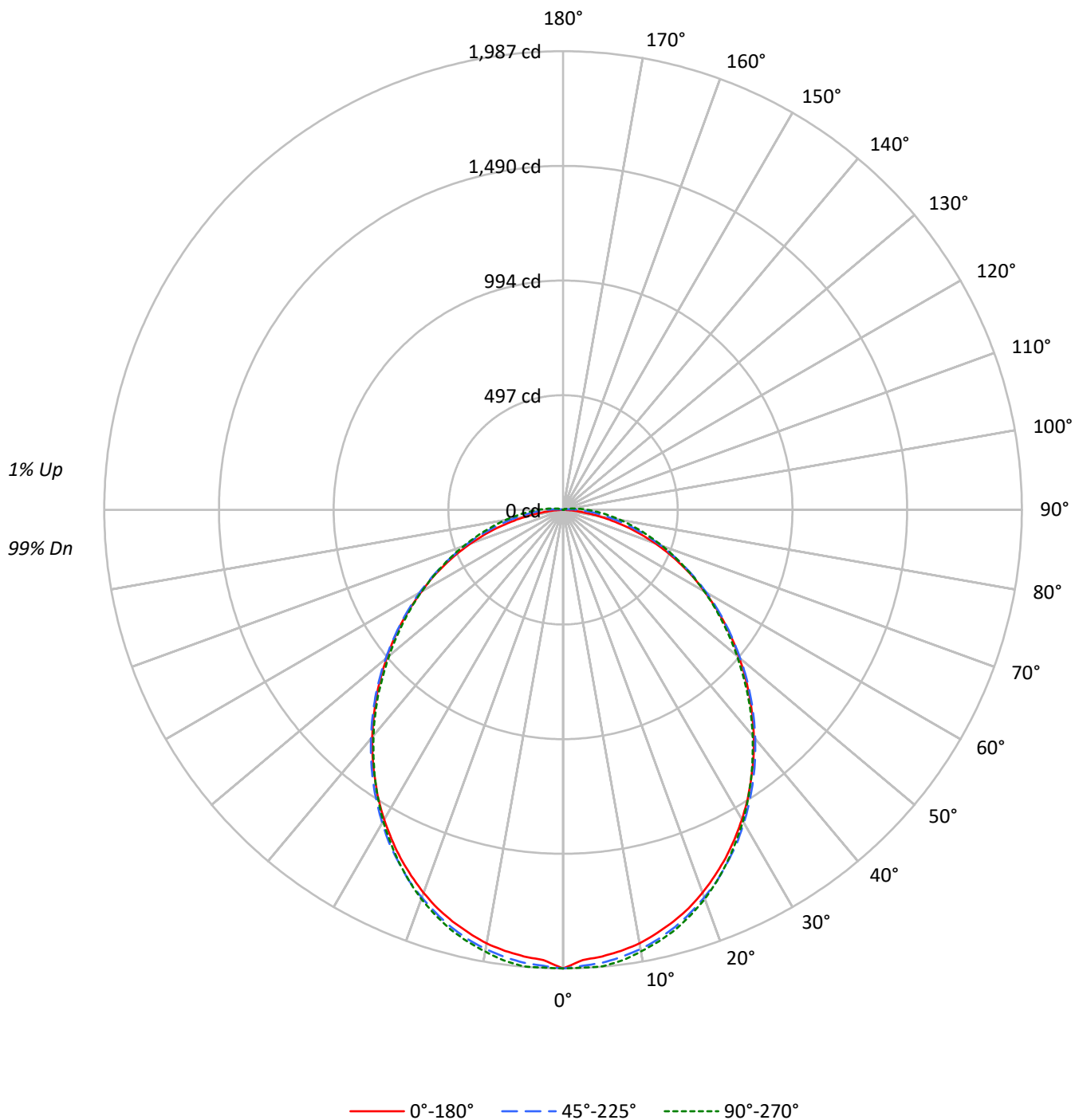
Lumens per Lamp: N/A
Luminaire Lumens: 5157.4 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.3
Input Voltage (V):
Input Current (A_{in}): 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

TEST NUMBER: P1559214

CATALOG NUMBER: 4NWS3C5-NUV-High-45K

Luminous Intensity Polar Plot



TEST NUMBER: P1559214

CATALOG NUMBER: 4NWS3C5-NUV-High-45K

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°	16204	16204	16204
5°	15899	16119	16250
10°	15794	16000	16091
15°	15589	15799	15892
20°	15323	15513	15574
25°	14982	15161	15143
30°	14589	14749	14674
35°	14144	14283	14134
40°	13681	13777	13596
45°	13177	13257	13039
50°	12637	12711	12459
55°	12120	12191	11949
60°	11529	11692	11512
65°	10927	11178	11120
70°	10126	10722	10889
75°	9017	10240	10933
80°	7302	10162	11801
85°	4762	12219	15952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 25350 cd/sqm

TEST NUMBER: P1559214

CATALOG NUMBER: 4NWS3C5-NUV-High-45K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	3.6
10°-20°	529.1	10.3
20°-30°	778.0	15.1
30°-40°	898.9	17.4
40°-50°	888.3	17.2
50°-60°	768.8	14.9
60°-70°	575.5	11.2
70°-80°	344.5	6.7
80°-90°	139.3	2.7
90°-100°	36.1	0.7
100°-110°	9.1	0.2
110°-120°	2.3	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°	1494.5	29.0
0°-40°	2393.4	46.4
0°-60°	4050.4	78.5
0°-90°	5109.7	99.1
90°-120°	47.6	0.9
90°-150°	47.7	0.9
90°-180°	48.0	0.9
0°-180°	5157.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1987	1987	1987	1987	1987	
5°	1942	2006	1969	1964	1985	184
15°	1847	1906	1872	1872	1882	520
25°	1665	1720	1685	1682	1683	766
35°	1421	1466	1435	1431	1420	889
45°	1143	1176	1150	1144	1131	881
55°	852	877	858	854	840	762
65°	566	582	579	586	576	561
75°	286	305	325	349	347	302
85°	51	84	131	166	170	64
90°	0	25	67	100	107	2
95°	1	6	29	55	61	1
105°	1	1	7	15	18	1
115°	2	1	2	3	4	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	0

TEST NUMBER: P1559214

CATALOG NUMBER: 4NWS3C5-NUV-High-45K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1987.1	1987.1	1987.1	1987.1	1987.1
2.5°	1952.2	2014.1	1977.2	1973.2	1985.2
5°	1942.3	2006.1	1969.2	1964.2	1985.2
7.5°	1927.3	1991.1	1953.2	1948.3	1969.2
10°	1907.4	1969.2	1932.3	1928.3	1943.3
12.5°	1878.5	1942.3	1905.4	1901.4	1915.4
15°	1846.6	1906.4	1871.5	1872.5	1882.5
17.5°	1809.7	1866.5	1831.6	1832.6	1840.6
20°	1765.8	1822.6	1787.7	1785.7	1794.7
22.5°	1716.9	1773.8	1740.9	1734.9	1740.9
25°	1665.1	1719.9	1685.0	1682.0	1683.0
27.5°	1608.3	1661.1	1629.2	1624.2	1621.2
30°	1549.4	1599.3	1566.4	1561.4	1558.4
32.5°	1487.6	1533.5	1501.6	1496.6	1489.6
35°	1420.8	1465.7	1434.8	1430.8	1419.8
37.5°	1355.0	1394.9	1365.0	1362.0	1348.0
40°	1285.2	1323.1	1294.2	1289.2	1277.2
42.5°	1213.4	1250.3	1222.4	1216.4	1204.5
45°	1142.6	1175.5	1149.6	1143.6	1130.7
47.5°	1068.9	1100.8	1076.8	1070.8	1054.9
50°	996.1	1028.0	1002.0	997.1	982.1
52.5°	925.3	952.2	929.3	925.3	911.3
55°	852.5	877.4	857.5	854.5	840.5
57.5°	779.7	801.6	786.7	785.7	773.7
60°	706.9	728.9	716.9	716.9	705.9
62.5°	639.1	656.1	647.1	652.1	640.1
65°	566.3	582.3	579.3	586.3	576.3
67.5°	495.5	512.5	513.5	525.5	516.5
70°	424.7	441.7	449.7	462.6	456.7
72.5°	354.0	371.9	386.9	404.8	399.8
75°	286.2	305.1	325.0	349.0	347.0
77.5°	217.4	241.3	269.2	297.1	297.1
80°	155.5	182.5	216.4	249.3	251.3
82.5°	98.7	128.6	170.5	205.4	208.4
85°	50.9	83.8	130.6	165.5	170.5
87.5°	16.0	48.9	94.7	129.6	135.6
90°	0.0	24.9	66.8	99.7	106.7
92.5°	0.0	12.0	44.9	74.8	81.8
95°	1.0	6.0	28.9	54.8	60.8
97.5°	1.0	3.0	18.9	38.9	44.9
100°	1.0	2.0	13.0	27.9	32.9
102.5°	1.0	1.0	9.0	19.9	23.9
105°	1.0	1.0	7.0	15.0	17.9
107.5°	2.0	1.0	4.0	11.0	13.0
110°	2.0	1.0	2.0	8.0	10.0



TEST NUMBER: P1559214

CATALOG NUMBER: 4NWS3C5-NUV-High-45K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	1.0	1.0	5.0	7.0
115°	2.0	1.0	2.0	3.0	4.0
117.5°	2.0	1.0	2.0	1.0	2.0
120°	2.0	1.0	1.0	1.0	1.0
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

TEST NUMBER: P1559214

CATALOG NUMBER: 4NWS3C5-NUV-High-45K

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	20.6	22.2	21.0	22.5	22.9	20.5	22.1	20.9	22.4	22.7
	3H	22.3	23.7	22.7	24.1	24.5	22.3	23.8	22.7	24.1	24.5
	4H	22.9	24.2	23.3	24.6	25.0	23.1	24.5	23.5	24.8	25.2
	6H	23.3	24.5	23.7	24.9	25.3	23.8	25.1	24.3	25.5	25.9
	8H	23.4	24.6	23.8	25.0	25.4	24.2	25.4	24.6	25.8	26.2
	12H	23.4	24.6	23.9	25.0	25.4	24.5	25.7	25.0	26.1	26.5
4H	2H	21.2	22.6	21.6	22.9	23.3	21.1	22.5	21.5	22.8	23.2
	3H	23.1	24.3	23.5	24.7	25.1	23.2	24.3	23.6	24.8	25.2
	4H	23.8	24.9	24.3	25.3	25.8	24.1	25.2	24.6	25.6	26.1
	6H	24.4	25.3	24.8	25.7	26.2	25.0	25.9	25.5	26.4	26.9
	8H	24.5	25.4	25.0	25.8	26.3	25.5	26.3	25.9	26.8	27.3
	12H	24.6	25.4	25.1	25.9	26.3	25.9	26.7	26.4	27.2	27.6
8H	4H	24.2	25.1	24.7	25.5	26.0	24.5	25.3	24.9	25.8	26.3
	6H	24.9	25.6	25.4	26.1	26.6	25.5	26.2	26.0	26.8	27.2
	8H	25.1	25.7	25.6	26.3	26.8	26.1	26.7	26.6	27.3	27.8
	12H	25.3	25.8	25.8	26.3	26.9	26.7	27.3	27.2	27.8	28.4
12H	4H	24.3	25.0	24.8	25.5	26.0	24.5	25.3	25.0	25.8	26.2
	6H	25.0	25.6	25.5	26.1	26.7	25.6	26.3	26.2	26.7	27.3
	8H	25.3	25.9	25.8	26.4	26.9	26.2	26.8	26.8	27.3	27.9













(END OF REPORT)