

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: P1036867

Luminaire Tested: UHBS2-4860-L8C5-MID-N-3500K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-430-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/30/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-4860-L8C5-MID-N-3500K
Description: UHBS Selectable High Bay at MID lumen, 3500K CCT settings with Narrow beam
Light Source: -
Ballast/Driver: -

Summary

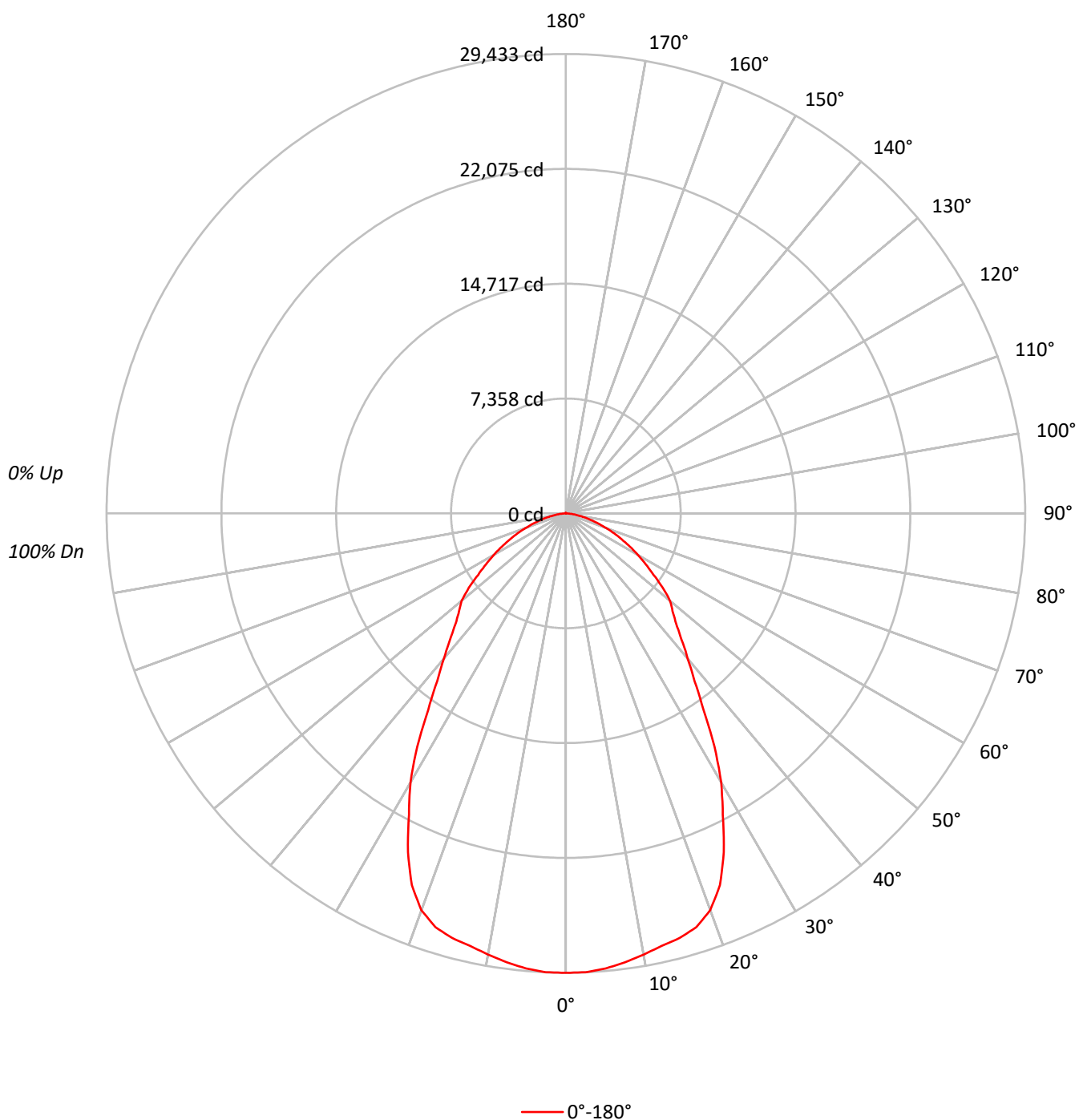
Lumens per Lamp: N/A
Luminaire Lumens: 51572.9 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 350.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9978
Total Harmonic Distortion (THDi): 3.3895
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1036867

CATALOG NUMBER: UHBS2-4860-L8C5-MID-N-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1036867

CATALOG NUMBER: UHBS2-4860-L8C5-MID-N-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	90	85	100	94	88	84	90	86	82		87	83	80		84
3	95	86	79	73	92	84	78	72	81	76	71		79	74	70		76
4	88	77	70	64	86	76	69	63	74	68	63		71	66	62		69
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		59
7	71	59	51	46	70	58	51	46	57	50	45		55	49	45		54
8	67	55	47	42	65	54	47	41	53	46	41		51	45	41		50
9	63	51	43	38	61	50	43	38	49	42	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	145217
5°	144944
10°	143805
15°	143872
20°	142047
25°	130376
30°	113359
35°	92554
40°	78251
45°	69608
50°	66861
55°	59002
60°	52705
65°	46321
70°	39442
75°	32247
80°	25284
85°	18007

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 69608 cd/sqm

TEST NUMBER: P1036867

CATALOG NUMBER: UHBS2-4860-L8C5-MID-N-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2775.4	5.4
10°-20°	7931.6	15.4
20°-30°	10889.6	21.1
30°-40°	9743.4	18.9
40°-50°	7835.1	15.2
50°-60°	6202.3	12.0
60°-70°	3950.1	7.7
70°-80°	1825.7	3.5
80°-90°	394.6	0.8
90°-100°	0.2	0.0
100°-110°	0.6	0.0
110°-120°	0.9	0.0
120°-130°	1.6	0.0
130°-140°	3.5	0.0
140°-150°	5.4	0.0
150°-160°	6.0	0.0
160°-170°	5.1	0.0
170°-180°	2.0	0.0
0°-30°	21596.6	41.9
0°-40°	31340.0	60.8
0°-60°	45377.5	88.0
0°-90°	51547.8	100.0
90°-120°	1.7	0.0
90°-150°	12.3	0.0
90°-180°	25.0	0.0
0°-180°	51572.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	29433	
5°	29266	###
15°	28167	7932
25°	23949	10890
35°	15366	9743
45°	9976	7835
55°	6859	6202
65°	3968	3950
75°	1692	1826
85°	318	382
90°	2	12
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	4	3
145°	9	5
155°	13	6
165°	18	5
175°	22	2
180°	23	

TEST NUMBER: P1036867

CATALOG NUMBER: UHBS2-4860-L8C5-MID-N-3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	29433.1
2.5°	29427.6
5°	29265.8
7.5°	29015.8
10°	28704.0
12.5°	28377.7
15°	28166.8
17.5°	27796.0
20°	27054.2
22.5°	25782.6
25°	23949.1
27.5°	21775.7
30°	19897.8
32.5°	17728.9
35°	15366.5
37.5°	13544.8
40°	12149.5
42.5°	10976.0
45°	9976.1
47.5°	9273.5
50°	8710.8
52.5°	7831.8
55°	6859.2
57.5°	6067.5
60°	5341.2
62.5°	4626.8
65°	3967.7
67.5°	3351.4
70°	2734.2
72.5°	2190.7
75°	1691.6
77.5°	1236.2
80°	889.9
82.5°	600.8
85°	318.1
87.5°	86.4
90°	1.8
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.9
110°	0.9



TEST NUMBER: P1036867

CATALOG NUMBER: UHBS2-4860-L8C5-MID-N-3500K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	0.9
120°	0.9
122.5°	1.8
125°	1.8
127.5°	1.8
130°	2.7
132.5°	3.6
135°	4.5
137.5°	5.5
140°	6.4
142.5°	7.3
145°	9.1
147.5°	10.0
150°	10.9
152.5°	11.8
155°	12.7
157.5°	14.5
160°	15.5
162.5°	17.3
165°	18.2
167.5°	19.1
170°	20.0
172.5°	20.9
175°	21.8
177.5°	21.8
180°	22.7

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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	25.20	26.63	25.57	26.95	27.26	25.20	26.63	25.57	26.95	27.26
	3H	26.48	27.76	26.86	28.09	28.46	26.48	27.76	26.86	28.09	28.46
	4H	26.87	28.06	27.27	28.42	28.80	26.87	28.06	27.27	28.42	28.80
	6H	27.08	28.19	27.50	28.56	28.95	27.08	28.19	27.50	28.56	28.95
	8H	27.14	28.19	27.57	28.58	28.98	27.14	28.19	27.57	28.58	28.98
	12H	27.16	28.16	27.59	28.54	28.98	27.16	28.16	27.59	28.54	28.98
4H	2H	25.65	26.85	26.06	27.20	27.58	25.65	26.85	26.06	27.20	27.58
	3H	27.12	28.10	27.53	28.51	28.91	27.12	28.10	27.53	28.51	28.91
	4H	27.59	28.48	28.03	28.90	29.34	27.59	28.48	28.03	28.90	29.34
	6H	27.90	28.67	28.36	29.11	29.58	27.90	28.67	28.36	29.11	29.58
	8H	27.98	28.70	28.45	29.14	29.61	27.98	28.70	28.45	29.14	29.61
	12H	28.02	28.66	28.51	29.14	29.61	28.02	28.66	28.51	29.14	29.61
8H	4H	27.74	28.46	28.21	28.90	29.38	27.74	28.46	28.21	28.90	29.38
	6H	28.12	28.71	28.62	29.20	29.68	28.12	28.71	28.62	29.20	29.68
	8H	28.25	28.77	28.76	29.29	29.78	28.25	28.77	28.76	29.29	29.78
	12H	28.33	28.79	28.84	29.29	29.86	28.33	28.79	28.84	29.29	29.86
12H	4H	27.73	28.37	28.22	28.85	29.33	27.73	28.37	28.22	28.85	29.33
	6H	28.12	28.65	28.64	29.16	29.66	28.12	28.65	28.64	29.16	29.66
	8H	28.29	28.75	28.80	29.25	29.82	28.29	28.75	28.80	29.25	29.82