

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: P1036842

Luminaire Tested: UHBS2-4860-L8C5-HI-W-3500K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-430-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/30/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-4860-L8C5-HI-W-3500K
Description: UHBS Selectable High Bay at HI lumen, 3500K CCT settings with Wide beam
Light Source: -
Ballast/Driver: -

Summary

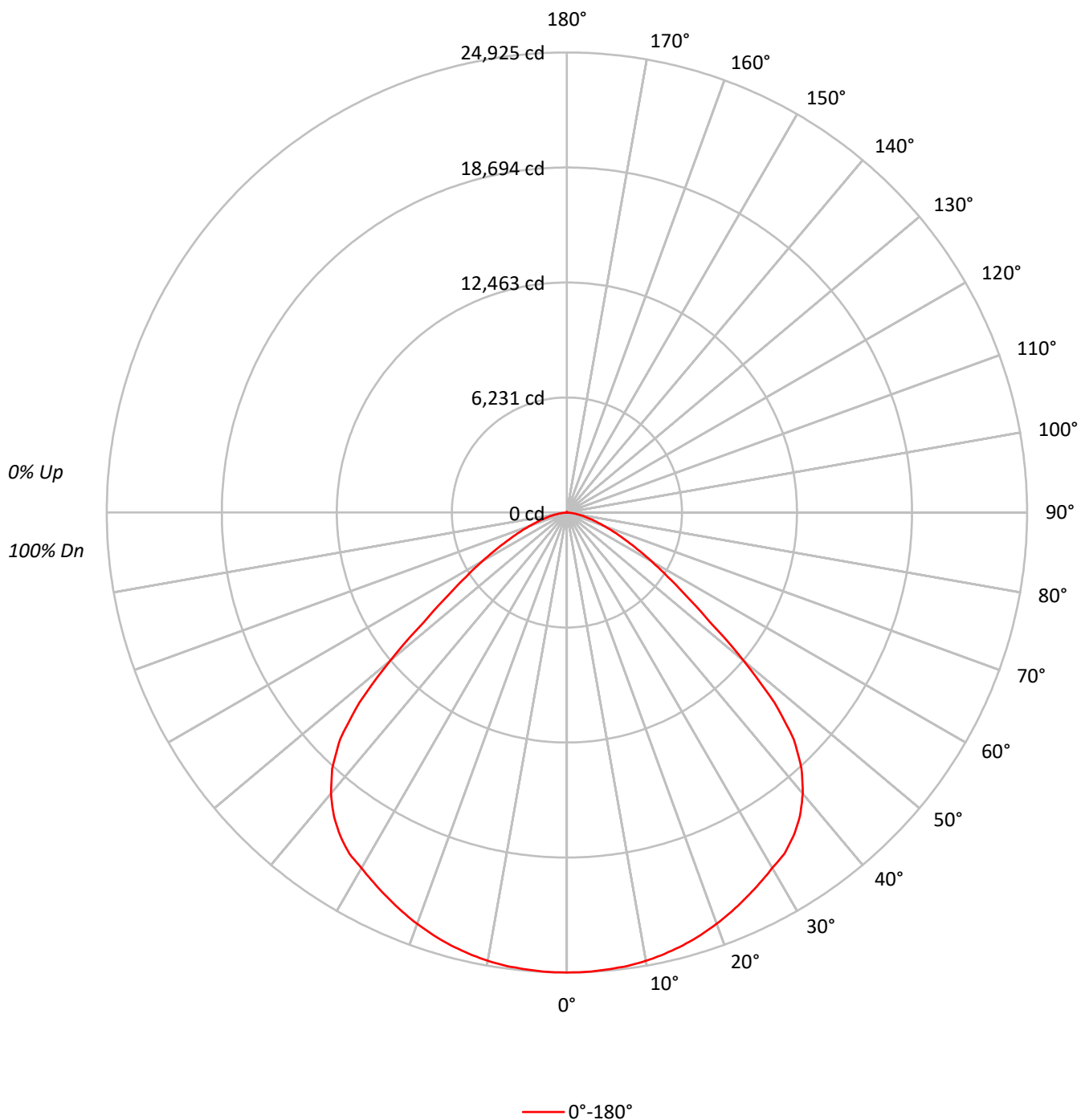
Lumens per Lamp: N/A
Luminaire Lumens: 58712.1 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.41
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 381.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9981
Total Harmonic Distortion (THDi): 3.1344
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1036842

CATALOG NUMBER: UHBS2-4860-L8C5-HI-W-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1036842

CATALOG NUMBER: UHBS2-4860-L8C5-HI-W-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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	51	47
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	35
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	122977
5°	123119
10°	123594
15°	124007
20°	124539
25°	125276
30°	126751
35°	128887
40°	128020
45°	121210
50°	95922
55°	67871
60°	52242
65°	40306
70°	31199
75°	24101
80°	17630
85°	8395

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 121210 cd/sqm

TEST NUMBER: P1036842

CATALOG NUMBER: UHBS2-4860-L8C5-HI-W-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2367.3	4.0
10°-20°	6859.3	11.7
20°-30°	10626.7	18.1
30°-40°	13339.2	22.7
40°-50°	13014.7	22.2
50°-60°	7349.1	12.5
60°-70°	3511.6	6.0
70°-80°	1381.5	2.4
80°-90°	235.1	0.4
90°-100°	0.8	0.0
100°-110°	1.1	0.0
110°-120°	1.4	0.0
120°-130°	2.4	0.0
130°-140°	4.5	0.0
140°-150°	6.0	0.0
150°-160°	5.6	0.0
160°-170°	4.4	0.0
170°-180°	1.7	0.0
0°-30°	19853.2	33.8
0°-40°	33192.4	56.5
0°-60°	53556.2	91.2
0°-90°	58684.4	100.0
90°-120°	3.2	0.0
90°-150°	16.1	0.0
90°-180°	28.0	0.0
0°-180°	58712.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	24925	
5°	24859	###
15°	24278	6859
25°	23012	10627
35°	21399	13339
45°	17372	13015
55°	7890	7349
65°	3452	3512
75°	1264	1382
85°	148	229
90°	3	6
95°	0	0
105°	1	1
115°	1	1
125°	3	2
135°	6	4
145°	10	6
155°	12	6
165°	16	4
175°	18	2
180°	20	

TEST NUMBER: P1036842

CATALOG NUMBER: UHBS2-4860-L8C5-HI-W-3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	24925.4
2.5°	24912.7
5°	24859.1
7.5°	24787.9
10°	24669.8
12.5°	24490.3
15°	24277.6
17.5°	24021.1
20°	23719.6
22.5°	23375.3
25°	23012.4
27.5°	22634.8
30°	22248.5
32.5°	21922.7
35°	21398.8
37.5°	20736.4
40°	19876.9
42.5°	18813.6
45°	17371.7
47.5°	15245.0
50°	12496.9
52.5°	9788.7
55°	7890.3
57.5°	6459.1
60°	5294.3
62.5°	4299.3
65°	3452.5
67.5°	2750.1
70°	2162.8
72.5°	1674.1
75°	1264.3
77.5°	916.0
80°	620.5
82.5°	363.9
85°	148.3
87.5°	41.0
90°	2.9
92.5°	0.0
95°	0.0
97.5°	1.0
100°	1.0
102.5°	1.0
105°	1.0
107.5°	1.0
110°	1.0



TEST NUMBER: P1036842

CATALOG NUMBER: UHBS2-4860-L8C5-HI-W-3500K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.0
115°	1.0
117.5°	2.0
120°	2.0
122.5°	2.0
125°	2.9
127.5°	2.9
130°	3.9
132.5°	4.9
135°	5.9
137.5°	6.8
140°	7.8
142.5°	8.8
145°	9.8
147.5°	10.7
150°	10.7
152.5°	11.7
155°	11.7
157.5°	12.7
160°	13.7
162.5°	14.6
165°	15.6
167.5°	16.6
170°	17.6
172.5°	17.6
175°	18.5
177.5°	18.5
180°	19.5

TEST NUMBER: P1036842

CATALOG NUMBER: UHBS2-4860-L8C5-HI-W-3500K

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	25.11	26.58	25.48	26.89	27.21	25.11	26.58	25.48	26.89	27.21
	3H	25.88	27.18	26.26	27.51	27.88	25.88	27.18	26.26	27.51	27.88
	4H	26.09	27.31	26.49	27.66	28.04	26.09	27.31	26.49	27.66	28.04
	6H	26.19	27.31	26.61	27.68	28.07	26.19	27.31	26.61	27.68	28.07
	8H	26.20	27.26	26.63	27.65	28.05	26.20	27.26	26.63	27.65	28.05
	12H	26.18	27.20	26.61	27.58	28.01	26.18	27.20	26.61	27.58	28.01
4H	2H	25.39	26.60	25.79	26.95	27.33	25.39	26.60	25.79	26.95	27.33
	3H	26.32	27.31	26.73	27.71	28.12	26.32	27.31	26.73	27.71	28.12
	4H	26.60	27.49	27.03	27.91	28.35	26.60	27.49	27.03	27.91	28.35
	6H	26.77	27.53	27.23	27.98	28.44	26.77	27.53	27.23	27.98	28.44
	8H	26.78	27.50	27.25	27.94	28.41	26.78	27.50	27.25	27.94	28.41
	12H	26.77	27.41	27.26	27.89	28.36	26.77	27.41	27.26	27.89	28.36
8H	4H	26.66	27.38	27.13	27.82	28.29	26.66	27.38	27.13	27.82	28.29
	6H	26.86	27.45	27.36	27.95	28.43	26.86	27.45	27.36	27.95	28.43
	8H	26.90	27.43	27.41	27.94	28.43	26.90	27.43	27.41	27.94	28.43
	12H	26.90	27.37	27.41	27.87	28.44	26.90	27.37	27.41	27.87	28.44
12H	4H	26.64	27.28	27.12	27.76	28.23	26.64	27.28	27.12	27.76	28.23
	6H	26.84	27.37	27.36	27.88	28.37	26.84	27.37	27.36	27.88	28.37
	8H	26.90	27.37	27.41	27.87	28.43	26.90	27.37	27.41	27.87	28.43

END OF REPORT