

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: P1036865

Luminaire Tested: UHBS2-4860-L8C5-MID-M-6500K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-430-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/30/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-4860-L8C5-MID-M-6500K
Description: UHBS Selectable High Bay at MID lumen, 6500K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

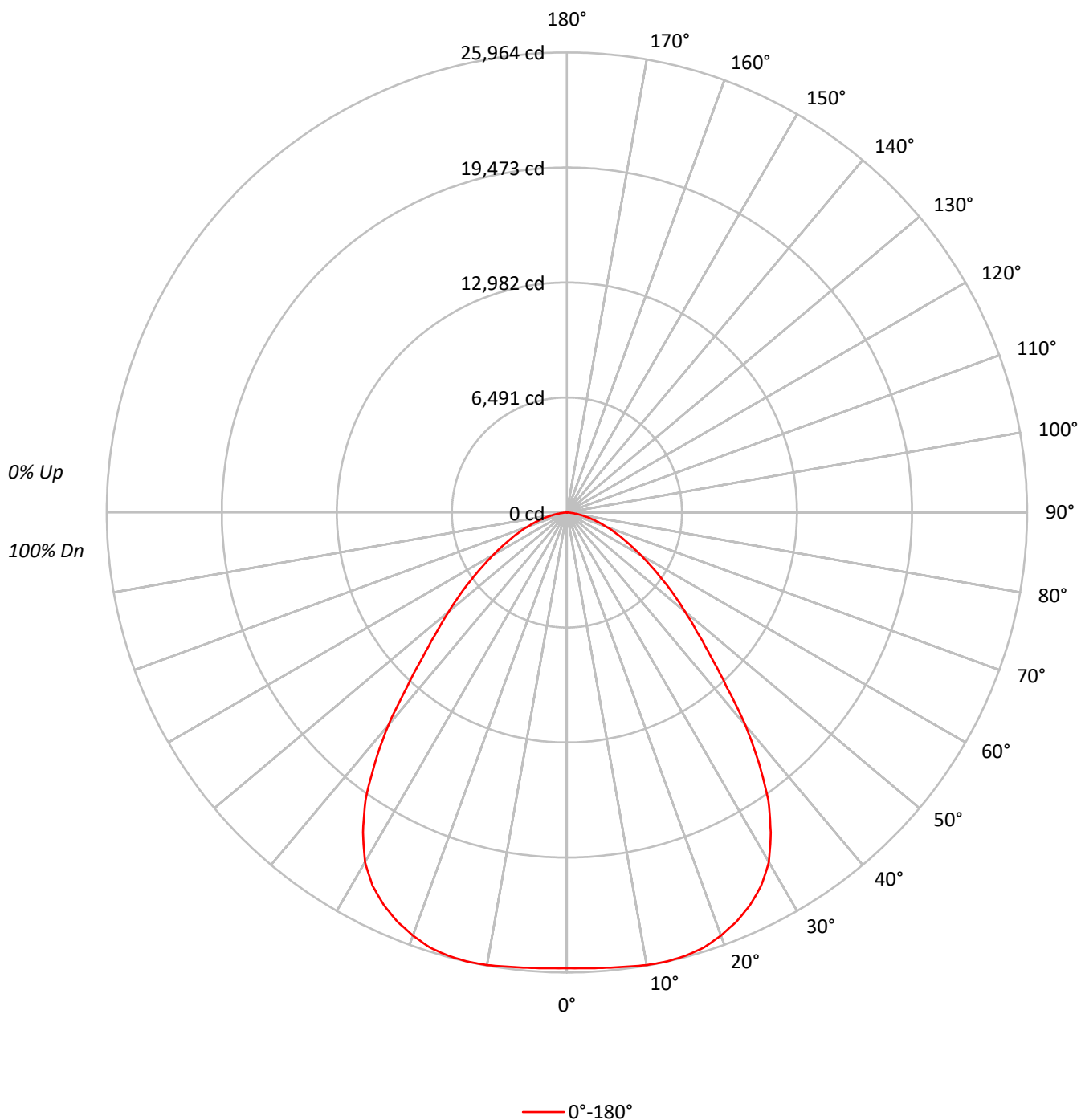
Lumens per Lamp: N/A
Luminaire Lumens: 53527.9 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 354.7
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: P1036865

CATALOG NUMBER: UHBS2-4860-L8C5-MID-M-6500K

Luminous Intensity Polar Plot



TEST NUMBER: P1036865

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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	104	100	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	91	86	82		87	84	81		84
3	95	86	79	74	93	84	78	73	82	76	72		79	74	70		77
4	88	78	70	64	86	76	69	64	74	68	63		72	66	62		70
5	82	70	63	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	45	69	58	51	45	57	50	45		55	49	45		54
8	66	54	46	41	65	54	46	41	52	46	41		51	45	41		50
9	62	50	43	37	61	50	42	37	48	42	37		47	41	37		46
10	59	46	39	34	57	46	39	34	45	39	34		44	38	34		43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	126910
5°	127742
10°	129959
15°	132283
20°	133402
25°	133075
30°	129794
35°	119301
40°	100938
45°	79872
50°	66743
55°	56224
60°	47538
65°	40487
70°	34476
75°	28506
80°	21113
85°	13167

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 79872 cd/sqm

TEST NUMBER: P1036865

CATALOG NUMBER: UHBS2-4860-L8C5-MID-M-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2466.7	4.6
10°-20°	7311.4	13.7
20°-30°	11221.7	21.0
30°-40°	12197.7	22.8
40°-50°	9005.5	16.8
50°-60°	5910.0	11.0
60°-70°	3479.8	6.5
70°-80°	1595.5	3.0
80°-90°	311.7	0.6
90°-100°	1.0	0.0
100°-110°	1.0	0.0
110°-120°	1.0	0.0
120°-130°	2.0	0.0
130°-140°	4.2	0.0
140°-150°	5.9	0.0
150°-160°	6.0	0.0
160°-170°	4.9	0.0
170°-180°	1.9	0.0
0°-30°	20999.8	39.2
0°-40°	33197.5	62.0
0°-60°	48113.0	89.9
0°-90°	53500.0	99.9
90°-120°	2.9	0.0
90°-150°	15.1	0.0
90°-180°	28.0	0.1
0°-180°	53527.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	25722	
5°	25793	###
15°	25898	7311
25°	24445	11222
35°	19807	12198
45°	11447	9005
55°	6536	5910
65°	3468	3480
75°	1495	1596
85°	233	303
90°	3	9
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	6	4
145°	9	6
155°	13	6
165°	18	5
175°	20	2
180°	21	

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CATALOG NUMBER: UHBS2-4860-L8C5-MID-M-6500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	25722.5
2.5°	25745.6
5°	25792.7
7.5°	25858.2
10°	25940.4
12.5°	25964.4
15°	25897.9
17.5°	25736.4
20°	25407.8
22.5°	24992.4
25°	24445.0
27.5°	23744.4
30°	22782.5
32.5°	21409.9
35°	19807.4
37.5°	17781.3
40°	15672.0
42.5°	13328.3
45°	11447.1
47.5°	9931.4
50°	8695.4
52.5°	7587.7
55°	6536.3
57.5°	5618.8
60°	4817.6
62.5°	4104.9
65°	3468.0
67.5°	2907.7
70°	2389.9
72.5°	1925.5
75°	1495.4
77.5°	1069.8
80°	743.1
82.5°	478.2
85°	232.6
87.5°	62.8
90°	2.8
92.5°	0.0
95°	0.9
97.5°	0.9
100°	0.9
102.5°	0.9
105°	0.9
107.5°	0.9
110°	0.9

TEST NUMBER: P1036865

CATALOG NUMBER: UHBS2-4860-L8C5-MID-M-6500K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	0.9
120°	1.8
122.5°	1.8
125°	1.8
127.5°	2.8
130°	3.7
132.5°	4.6
135°	5.5
137.5°	6.5
140°	7.4
142.5°	8.3
145°	9.2
147.5°	11.1
150°	11.1
152.5°	12.0
155°	12.9
157.5°	13.8
160°	15.7
162.5°	16.6
165°	17.5
167.5°	18.5
170°	19.4
172.5°	19.4
175°	20.3
177.5°	21.2
180°	21.2

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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	24.56	25.96	24.92	26.28	26.59	24.56	25.96	24.92	26.28	26.59
	3H	25.70	26.96	26.08	27.29	27.65	25.70	26.96	26.08	27.29	27.65
	4H	26.06	27.24	26.47	27.59	27.97	26.06	27.24	26.47	27.59	27.97
	6H	26.25	27.33	26.67	27.70	28.09	26.25	27.33	26.67	27.70	28.09
	8H	26.29	27.31	26.72	27.70	28.11	26.29	27.31	26.72	27.70	28.11
	12H	26.29	27.27	26.72	27.65	28.08	26.29	27.27	26.72	27.65	28.08
4H	2H	24.94	26.12	25.35	26.47	26.85	24.94	26.12	25.35	26.47	26.85
	3H	26.28	27.25	26.70	27.65	28.05	26.28	27.25	26.70	27.65	28.05
	4H	26.74	27.60	27.18	28.02	28.47	26.74	27.60	27.18	28.02	28.47
	6H	27.01	27.76	27.47	28.20	28.67	27.01	27.76	27.47	28.20	28.67
	8H	27.06	27.76	27.53	28.21	28.68	27.06	27.76	27.53	28.21	28.68
	12H	27.08	27.70	27.57	28.18	28.66	27.08	27.70	27.57	28.18	28.66
8H	4H	26.87	27.57	27.34	28.01	28.48	26.87	27.57	27.34	28.01	28.48
	6H	27.20	27.77	27.70	28.27	28.75	27.20	27.77	27.70	28.27	28.75
	8H	27.29	27.80	27.81	28.32	28.81	27.29	27.80	27.81	28.32	28.81
	12H	27.34	27.79	27.86	28.29	28.86	27.34	27.79	27.86	28.29	28.86
12H	4H	26.86	27.48	27.34	27.96	28.43	26.86	27.48	27.34	27.96	28.43
	6H	27.19	27.71	27.71	28.22	28.71	27.19	27.71	27.71	28.22	28.71
	8H	27.32	27.77	27.83	28.27	28.84	27.32	27.77	27.83	28.27	28.84

END OF REPORT