

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: P1036857

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036857
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-LOW-W-3500K
Description: UHBS Selectable High Bay at LOW lumen, 3500K CCT settings with Wide beam
Light Source: -
Ballast/Driver: -

Summary

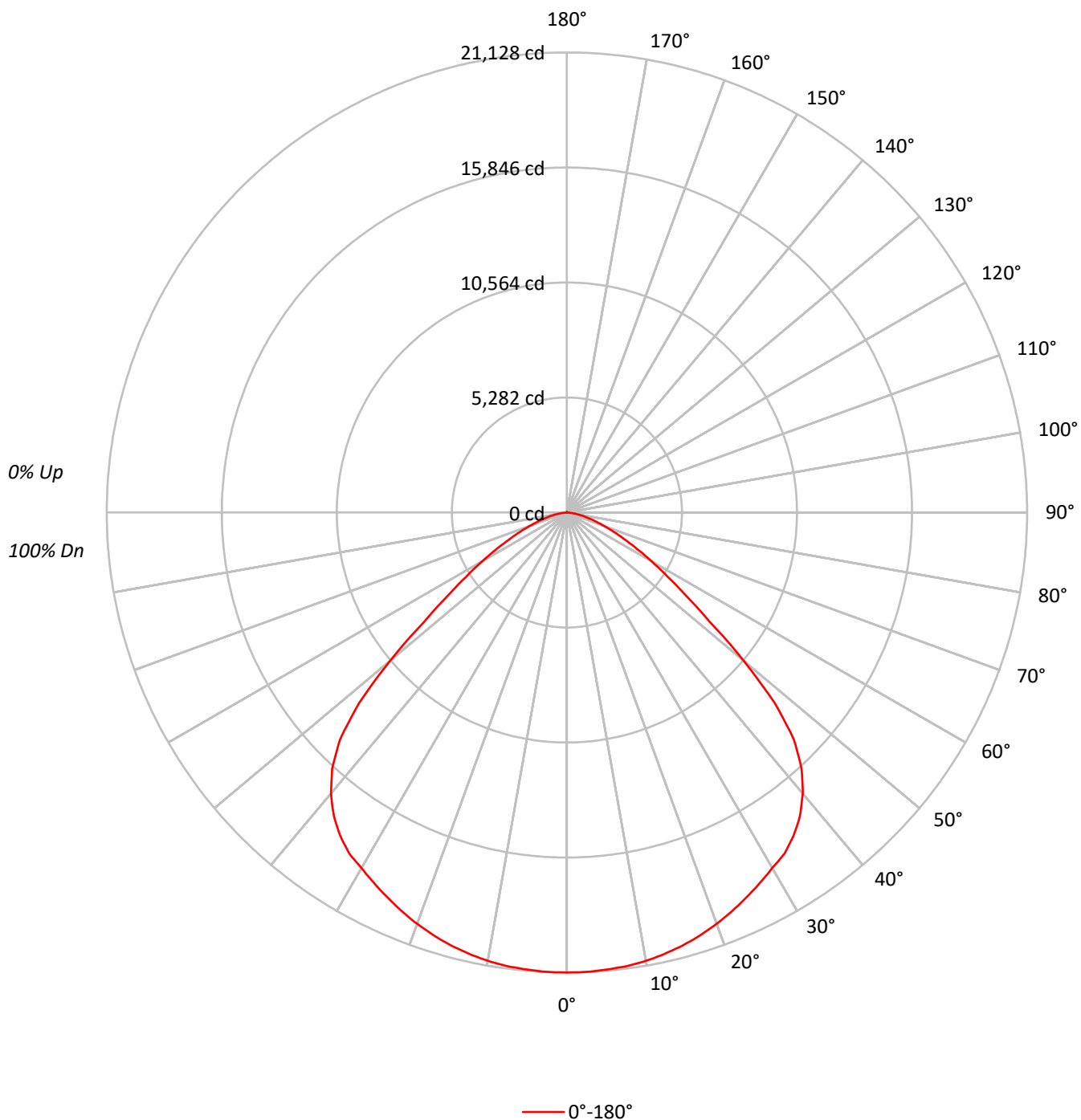
Lumens per Lamp: N/A
Luminaire Lumens: 49767.0 lumens
Efficiency: N/A
Efficacy: 159.2 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.41
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 312.7
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9972
Total Harmonic Distortion (THDi): 3.5666
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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
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	105	102	99	101	98	96		97	95	93		93
2	102	95	90	85	100	94	88	84	90	86	82		87	83	80		84
3	94	85	78	73	92	84	77	72	81	75	71		78	74	70		76
4	87	77	69	63	85	75	68	63	73	67	62		71	65	61		69
5	81	69	61	55	79	68	60	55	66	59	54		64	58	54		62
6	75	63	55	49	73	62	54	48	60	53	48		58	52	48		57
7	70	57	49	43	68	56	49	43	55	48	43		53	47	43		52
8	65	52	44	39	63	52	44	39	50	43	39		49	43	38		48
9	61	48	40	35	59	47	40	35	46	40	35		45	39	35		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	104241
5°	104361
10°	104764
15°	105114
20°	105565
25°	106190
30°	107441
35°	109250
40°	108516
45°	102744
50°	81307
55°	57531
60°	44283
65°	34165
70°	26446
75°	20430
80°	14942
85°	7116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 102744 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2006.6	4.0
10°-20°	5814.2	11.7
20°-30°	9007.6	18.1
30°-40°	11306.9	22.7
40°-50°	11031.9	22.2
50°-60°	6229.4	12.5
60°-70°	2976.6	6.0
70°-80°	1171.0	2.4
80°-90°	199.2	0.4
90°-100°	0.7	0.0
100°-110°	0.8	0.0
110°-120°	1.1	0.0
120°-130°	2.0	0.0
130°-140°	3.8	0.0
140°-150°	5.1	0.0
150°-160°	4.7	0.0
160°-170°	3.7	0.0
170°-180°	1.5	0.0
0°-30°	16828.5	33.8
0°-40°	28135.4	56.5
0°-60°	45396.7	91.2
0°-90°	49743.6	100.0
90°-120°	2.6	0.0
90°-150°	13.6	0.0
90°-180°	23.0	0.0
0°-180°	49767.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21128	
5°	21072	###
15°	20579	5814
25°	19506	9008
35°	18139	11307
45°	14725	11032
55°	6688	6229
65°	2926	2977
75°	1072	1171
85°	126	194
90°	2	5
95°	0	0
105°	1	1
115°	1	1
125°	2	2
135°	5	4
145°	8	5
155°	10	5
165°	13	4
175°	16	1
180°	16	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	21127.9
2.5°	21117.2
5°	21071.7
7.5°	21011.3
10°	20911.3
12.5°	20759.1
15°	20578.9
17.5°	20361.4
20°	20105.9
22.5°	19813.9
25°	19506.3
27.5°	19186.3
30°	18858.9
32.5°	18582.7
35°	18138.6
37.5°	17577.1
40°	16848.6
42.5°	15947.2
45°	14725.1
47.5°	12922.4
50°	10592.9
52.5°	8297.4
55°	6688.2
57.5°	5475.1
60°	4487.7
62.5°	3644.3
65°	2926.5
67.5°	2331.1
70°	1833.3
72.5°	1419.0
75°	1071.7
77.5°	776.5
80°	525.9
82.5°	308.4
85°	125.7
87.5°	34.7
90°	2.5
92.5°	0.0
95°	0.0
97.5°	0.8
100°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.8
115°	0.8
117.5°	1.7
120°	1.7
122.5°	1.7
125°	2.5
127.5°	2.5
130°	3.3
132.5°	4.1
135°	5.0
137.5°	5.8
140°	6.6
142.5°	7.4
145°	8.3
147.5°	9.1
150°	9.1
152.5°	9.9
155°	9.9
157.5°	10.8
160°	11.6
162.5°	12.4
165°	13.2
167.5°	14.1
170°	14.9
172.5°	14.9
175°	15.7
177.5°	15.7
180°	16.5

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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	24.54	26.00	24.90	26.32	26.63	24.54	26.00	24.90	26.32	26.63
	3H	25.31	26.61	25.69	26.94	27.30	25.31	26.61	25.69	26.94	27.30
	4H	25.52	26.73	25.92	27.08	27.46	25.52	26.73	25.92	27.08	27.46
	6H	25.62	26.74	26.03	27.11	27.50	25.62	26.74	26.03	27.11	27.50
	8H	25.62	26.69	26.05	27.08	27.48	25.62	26.69	26.05	27.08	27.48
	12H	25.61	26.62	26.04	27.01	27.44	25.61	26.62	26.04	27.01	27.44
4H	2H	24.81	26.03	25.21	26.38	26.76	24.81	26.03	25.21	26.38	26.76
	3H	25.74	26.74	26.16	27.14	27.54	25.74	26.74	26.16	27.14	27.54
	4H	26.03	26.91	26.46	27.33	27.77	26.03	26.91	26.46	27.33	27.77
	6H	26.19	26.96	26.65	27.40	27.87	26.19	26.96	26.65	27.40	27.87
	8H	26.21	26.92	26.67	27.37	27.84	26.21	26.92	26.67	27.37	27.84
	12H	26.20	26.83	26.68	27.32	27.79	26.20	26.83	26.68	27.32	27.79
8H	4H	26.09	26.80	26.55	27.25	27.72	26.09	26.80	26.55	27.25	27.72
	6H	26.29	26.88	26.79	27.37	27.85	26.29	26.88	26.79	27.37	27.85
	8H	26.32	26.85	26.84	27.37	27.86	26.32	26.85	26.84	27.37	27.86
	12H	26.33	26.80	26.84	27.29	27.86	26.33	26.80	26.84	27.29	27.86
12H	4H	26.07	26.70	26.55	27.18	27.66	26.07	26.70	26.55	27.18	27.66
	6H	26.26	26.80	26.78	27.31	27.80	26.26	26.80	26.78	27.31	27.80
	8H	26.32	26.80	26.84	27.29	27.86	26.32	26.80	26.84	27.29	27.86