

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: P1036872

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036872
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-MID-W-3500K
Description: UHBS Selectable High Bay at MID lumen, 3500K CCT settings with Wide beam
Light Source: -
Ballast/Driver: -

Summary

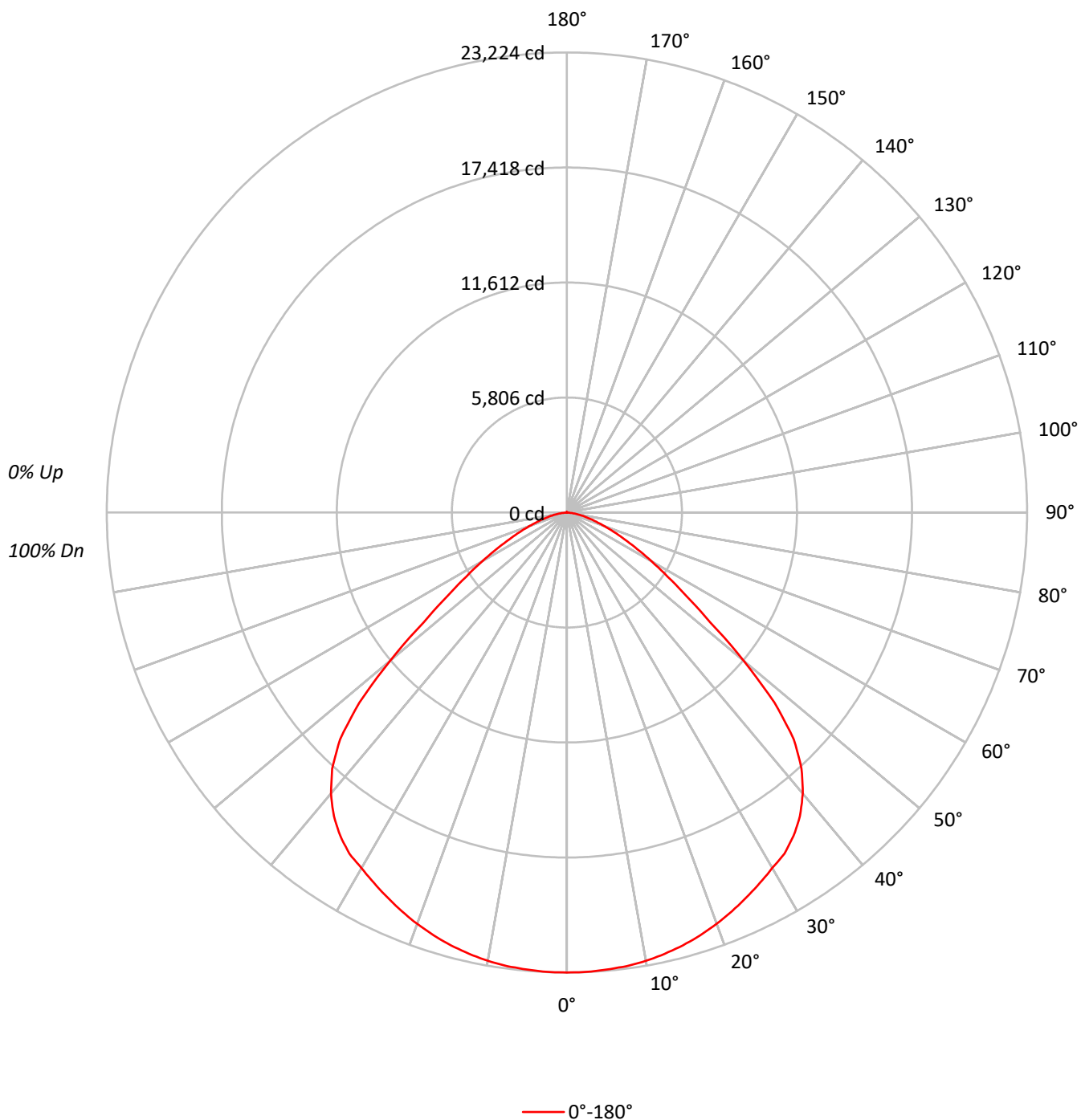
Lumens per Lamp: N/A
Luminaire Lumens: 54705.0 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.41
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	114584
5°	114716
10°	115159
15°	115543
20°	116039
25°	116726
30°	118101
35°	120090
40°	119283
45°	112938
50°	89375
55°	63239
60°	48677
65°	37555
70°	29070
75°	22456
80°	16425
85°	7823

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 112938 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2205.7	4.0
10°-20°	6391.1	11.7
20°-30°	9901.4	18.1
30°-40°	12428.8	22.7
40°-50°	12126.5	22.2
50°-60°	6847.5	12.5
60°-70°	3271.9	6.0
70°-80°	1287.2	2.4
80°-90°	219.0	0.4
90°-100°	0.7	0.0
100°-110°	1.0	0.0
110°-120°	1.2	0.0
120°-130°	2.2	0.0
130°-140°	4.2	0.0
140°-150°	5.6	0.0
150°-160°	5.2	0.0
160°-170°	4.1	0.0
170°-180°	1.6	0.0
0°-30°	18498.3	33.8
0°-40°	30927.1	56.5
0°-60°	49901.1	91.2
0°-90°	54679.2	100.0
90°-120°	2.9	0.0
90°-150°	14.9	0.0
90°-180°	26.0	0.0
0°-180°	54705.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23224	
5°	23162	###
15°	22621	6391
25°	21442	9901
35°	19938	12429
45°	16186	12126
55°	7352	6847
65°	3217	3272
75°	1178	1287
85°	138	213
90°	3	6
95°	0	0
105°	1	1
115°	1	1
125°	3	2
135°	6	4
145°	9	6
155°	11	5
165°	14	4
175°	17	2
180°	18	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	23224.3
2.5°	23212.5
5°	23162.5
7.5°	23096.1
10°	22986.1
12.5°	22818.9
15°	22620.7
17.5°	22381.7
20°	22100.8
22.5°	21779.9
25°	21441.8
27.5°	21090.0
30°	20730.1
32.5°	20426.5
35°	19938.4
37.5°	19321.2
40°	18520.4
42.5°	17529.6
45°	16186.1
47.5°	14204.5
50°	11644.0
52.5°	9120.6
55°	7351.8
57.5°	6018.3
60°	4933.0
62.5°	4005.9
65°	3216.9
67.5°	2562.4
70°	2015.2
72.5°	1559.8
75°	1178.0
77.5°	853.5
80°	578.1
82.5°	339.0
85°	138.2
87.5°	38.2
90°	2.7
92.5°	0.0
95°	0.0
97.5°	0.9
100°	0.9
102.5°	0.9
105°	0.9
107.5°	0.9
110°	0.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	1.8
120°	1.8
122.5°	1.8
125°	2.7
127.5°	2.7
130°	3.6
132.5°	4.5
135°	5.5
137.5°	6.4
140°	7.3
142.5°	8.2
145°	9.1
147.5°	10.0
150°	10.0
152.5°	10.9
155°	10.9
157.5°	11.8
160°	12.7
162.5°	13.6
165°	14.5
167.5°	15.5
170°	16.4
172.5°	16.4
175°	17.3
177.5°	17.3
180°	18.2

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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	24.87	26.33	25.23	26.64	26.96	24.87	26.33	25.23	26.64	26.96
	3H	25.64	26.94	26.02	27.27	27.63	25.64	26.94	26.02	27.27	27.63
	4H	25.85	27.06	26.25	27.41	27.79	25.85	27.06	26.25	27.41	27.79
	6H	25.95	27.07	26.36	27.43	27.83	25.95	27.07	26.36	27.43	27.83
	8H	25.95	27.01	26.38	27.41	27.81	25.95	27.01	26.38	27.41	27.81
	12H	25.94	26.95	26.37	27.33	27.77	25.94	26.95	26.37	27.33	27.77
4H	2H	25.14	26.36	25.54	26.71	27.09	25.14	26.36	25.54	26.71	27.09
	3H	26.07	27.07	26.49	27.47	27.87	26.07	27.07	26.49	27.47	27.87
	4H	26.35	27.24	26.79	27.66	28.10	26.35	27.24	26.79	27.66	28.10
	6H	26.52	27.29	26.98	27.73	28.20	26.52	27.29	26.98	27.73	28.20
	8H	26.54	27.25	27.00	27.70	28.17	26.54	27.25	27.00	27.70	28.17
	12H	26.53	27.16	27.01	27.64	28.12	26.53	27.16	27.01	27.64	28.12
8H	4H	26.41	27.13	26.88	27.58	28.05	26.41	27.13	26.88	27.58	28.05
	6H	26.62	27.21	27.12	27.70	28.18	26.62	27.21	27.12	27.70	28.18
	8H	26.65	27.18	27.17	27.70	28.19	26.65	27.18	27.17	27.70	28.19
	12H	26.66	27.13	27.17	27.62	28.19	26.66	27.13	27.17	27.62	28.19
12H	4H	26.39	27.03	26.88	27.51	27.99	26.39	27.03	26.88	27.51	27.99
	6H	26.59	27.12	27.11	27.64	28.13	26.59	27.12	27.11	27.64	28.13
	8H	26.65	27.13	27.17	27.62	28.19	26.65	27.13	27.17	27.62	28.19