

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: P1036849

Luminaire Tested: UHBS2-4860-L8C5-LOW-M-5000K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036849
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-LOW-M-5000K
Description: UHBS Selectable High Bay at LOW lumen, 5000K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

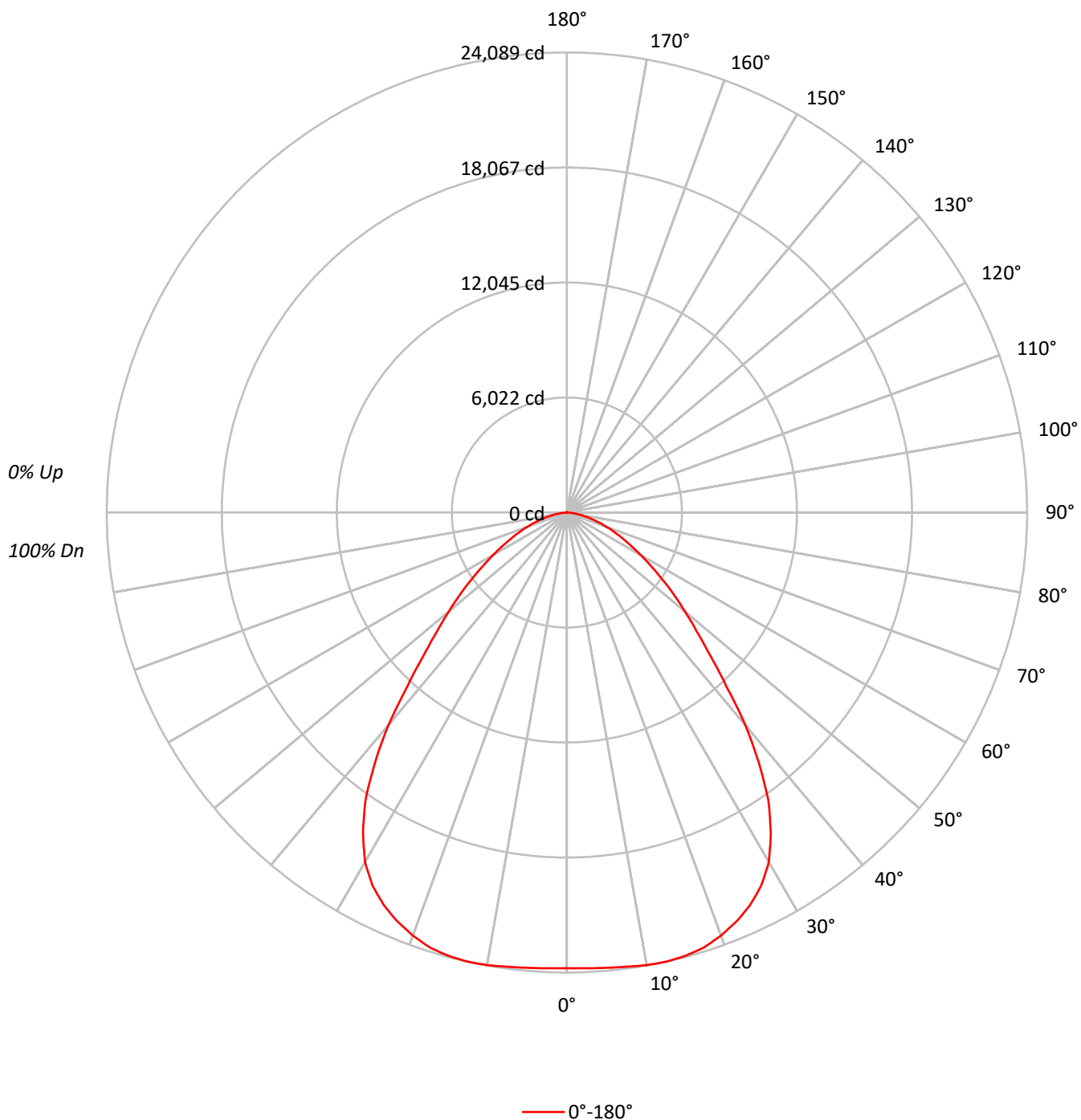
Lumens per Lamp: N/A
Luminaire Lumens: 49661.1 lumens
Efficiency: N/A
Efficacy: 159.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 310.6
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	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°	117742
5°	118514
10°	120571
15°	122727
20°	123765
25°	123461
30°	120417
35°	110683
40°	93646
45°	74101
50°	61921
55°	52162
60°	44103
65°	37562
70°	31984
75°	26448
80°	19588
85°	12216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 74101 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2288.5	4.6
10°-20°	6783.2	13.7
20°-30°	10411.0	21.0
30°-40°	11316.5	22.8
40°-50°	8354.9	16.8
50°-60°	5483.1	11.0
60°-70°	3228.4	6.5
70°-80°	1480.3	3.0
80°-90°	289.1	0.6
90°-100°	1.0	0.0
100°-110°	1.0	0.0
110°-120°	1.0	0.0
120°-130°	1.9	0.0
130°-140°	3.9	0.0
140°-150°	5.5	0.0
150°-160°	5.5	0.0
160°-170°	4.6	0.0
170°-180°	1.8	0.0
0°-30°	19482.7	39.2
0°-40°	30799.2	62.0
0°-60°	44637.2	89.9
0°-90°	49635.0	99.9
90°-120°	2.9	0.0
90°-150°	14.2	0.0
90°-180°	26.0	0.1
0°-180°	49661.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23864	
5°	23929	###
15°	24027	6783
25°	22679	10411
35°	18376	11317
45°	10620	8355
55°	6064	5483
65°	3218	3228
75°	1387	1480
85°	216	281
90°	3	9
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	5	4
145°	9	5
155°	12	6
165°	16	5
175°	19	2
180°	20	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	23864.3
2.5°	23885.7
5°	23929.4
7.5°	23990.2
10°	24066.4
12.5°	24088.6
15°	24027.0
17.5°	23877.1
20°	23572.2
22.5°	23186.9
25°	22679.0
27.5°	22029.0
30°	21136.7
32.5°	19863.2
35°	18376.5
37.5°	16496.7
40°	14539.9
42.5°	12365.5
45°	10620.1
47.5°	9213.9
50°	8067.2
52.5°	7039.6
55°	6064.1
57.5°	5212.9
60°	4469.5
62.5°	3808.4
65°	3217.5
67.5°	2697.6
70°	2217.2
72.5°	1786.4
75°	1387.4
77.5°	992.6
80°	689.4
82.5°	443.6
85°	215.8
87.5°	58.2
90°	2.6
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



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	0.9
120°	1.7
122.5°	1.7
125°	1.7
127.5°	2.6
130°	3.4
132.5°	4.3
135°	5.1
137.5°	6.0
140°	6.9
142.5°	7.7
145°	8.6
147.5°	10.3
150°	10.3
152.5°	11.1
155°	12.0
157.5°	12.8
160°	14.6
162.5°	15.4
165°	16.3
167.5°	17.1
170°	18.0
172.5°	18.0
175°	18.8
177.5°	19.7
180°	19.7

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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	24.30	25.70	24.66	26.02	26.33	24.30	25.70	24.66	26.02	26.33
	3H	25.44	26.69	25.82	27.02	27.39	25.44	26.69	25.82	27.02	27.39
	4H	25.80	26.98	26.21	27.33	27.71	25.80	26.98	26.21	27.33	27.71
	6H	25.99	27.07	26.40	27.44	27.83	25.99	27.07	26.40	27.44	27.83
	8H	26.03	27.05	26.46	27.44	27.85	26.03	27.05	26.46	27.44	27.85
	12H	26.03	27.01	26.46	27.39	27.82	26.03	27.01	26.46	27.39	27.82
4H	2H	24.68	25.86	25.09	26.21	26.59	24.68	25.86	25.09	26.21	26.59
	3H	26.02	26.99	26.44	27.39	27.79	26.02	26.99	26.44	27.39	27.79
	4H	26.48	27.34	26.92	27.76	28.20	26.48	27.34	26.92	27.76	28.20
	6H	26.75	27.50	27.21	27.94	28.41	26.75	27.50	27.21	27.94	28.41
	8H	26.80	27.50	27.27	27.95	28.42	26.80	27.50	27.27	27.95	28.42
	12H	26.82	27.44	27.31	27.92	28.40	26.82	27.44	27.31	27.92	28.40
8H	4H	26.61	27.31	27.08	27.75	28.22	26.61	27.31	27.08	27.75	28.22
	6H	26.94	27.51	27.44	28.01	28.49	26.94	27.51	27.44	28.01	28.49
	8H	27.03	27.54	27.55	28.06	28.55	27.03	27.54	27.55	28.06	28.55
	12H	27.08	27.53	27.59	28.03	28.60	27.08	27.53	27.59	28.03	28.60
12H	4H	26.60	27.21	27.08	27.70	28.17	26.60	27.21	27.08	27.70	28.17
	6H	26.93	27.45	27.45	27.96	28.45	26.93	27.45	27.45	27.96	28.45
	8H	27.06	27.51	27.57	28.01	28.58	27.06	27.51	27.57	28.01	28.58