

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: P1036859

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036859
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-5000K
Description: UHBS Selectable High Bay at LOW lumen, 5000K CCT settings with Wide beam
Light Source: -
Ballast/Driver: -

Summary

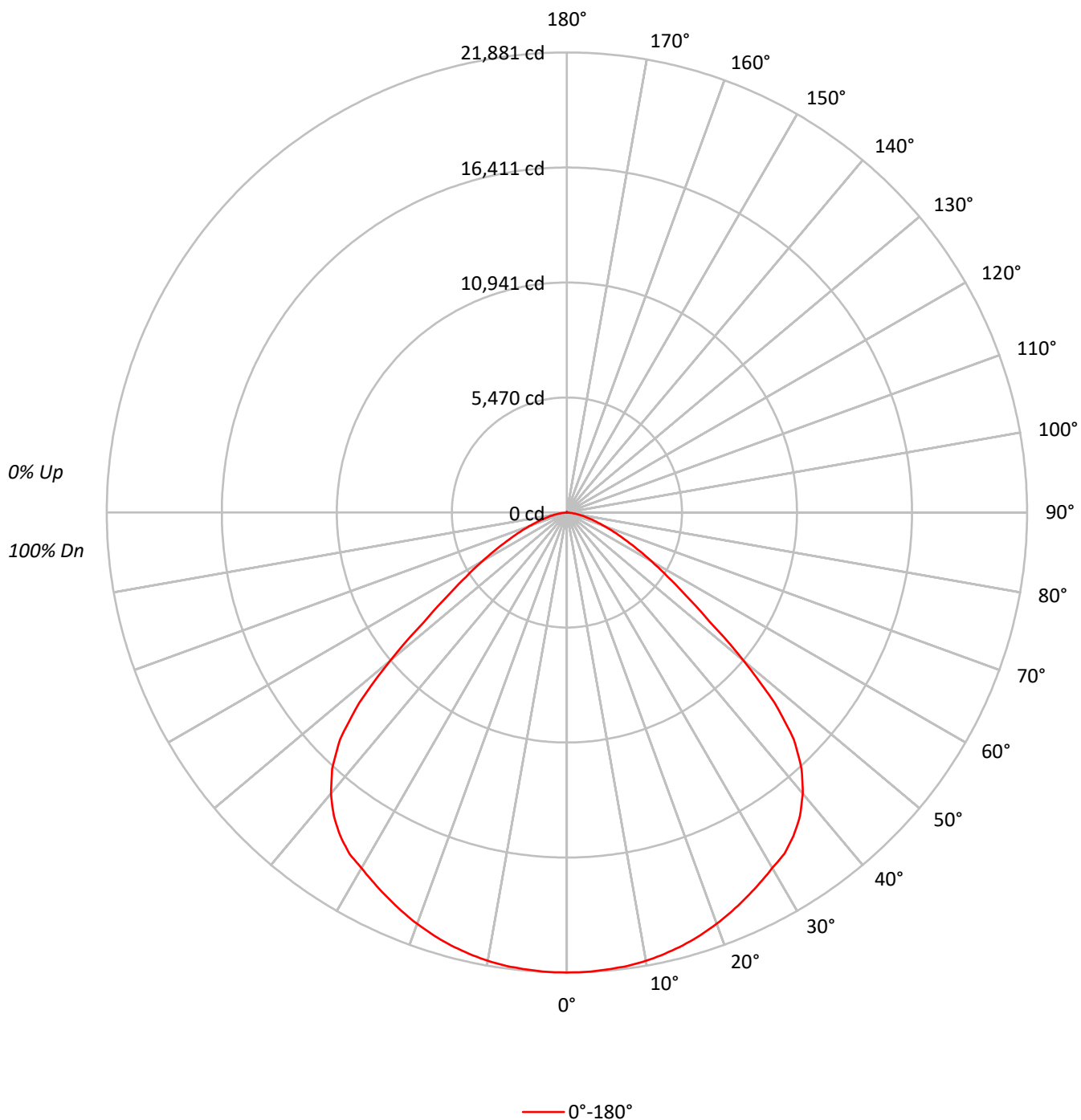
Lumens per Lamp: N/A
Luminaire Lumens: 51541.1 lumens
Efficiency: N/A
Efficacy: 165.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.41
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	107957
5°	108081
10°	108498
15°	108861
20°	109328
25°	109975
30°	111270
35°	113145
40°	112384
45°	106406
50°	84206
55°	59582
60°	45862
65°	35383
70°	27388
75°	21158
80°	15476
85°	7371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 106406 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2078.1	4.0
10°-20°	6021.5	11.7
20°-30°	9328.7	18.1
30°-40°	11710.0	22.7
40°-50°	11425.1	22.2
50°-60°	6451.5	12.5
60°-70°	3082.7	6.0
70°-80°	1212.8	2.4
80°-90°	206.3	0.4
90°-100°	0.7	0.0
100°-110°	1.0	0.0
110°-120°	1.2	0.0
120°-130°	2.1	0.0
130°-140°	3.9	0.0
140°-150°	5.3	0.0
150°-160°	4.9	0.0
160°-170°	3.8	0.0
170°-180°	1.5	0.0
0°-30°	17428.4	33.8
0°-40°	29138.3	56.5
0°-60°	47014.9	91.2
0°-90°	51516.7	100.0
90°-120°	2.9	0.0
90°-150°	14.2	0.0
90°-180°	24.0	0.0
0°-180°	51541.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21881	
5°	21823	###
15°	21312	6021
25°	20202	9329
35°	18785	11710
45°	15250	11425
55°	6927	6451
65°	3031	3083
75°	1110	1213
85°	130	201
90°	3	6
95°	0	0
105°	1	1
115°	1	1
125°	3	2
135°	5	4
145°	9	5
155°	10	5
165°	14	4
175°	16	2
180°	17	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	21881.1
2.5°	21869.9
5°	21822.8
7.5°	21760.3
10°	21656.7
12.5°	21499.1
15°	21312.4
17.5°	21087.2
20°	20822.5
22.5°	20520.2
25°	20201.7
27.5°	19870.2
30°	19531.1
32.5°	19245.1
35°	18785.2
37.5°	18203.7
40°	17449.2
42.5°	16515.7
45°	15249.9
47.5°	13383.0
50°	10970.5
52.5°	8593.1
55°	6926.6
57.5°	5670.2
60°	4647.7
62.5°	3774.2
65°	3030.8
67.5°	2414.2
70°	1898.6
72.5°	1469.6
75°	1109.9
77.5°	804.2
80°	544.7
82.5°	319.4
85°	130.2
87.5°	36.0
90°	2.6
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°	1.7
120°	1.7
122.5°	1.7
125°	2.6
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°	9.4
150°	9.4
152.5°	10.3
155°	10.3
157.5°	11.1
160°	12.0
162.5°	12.8
165°	13.7
167.5°	14.6
170°	15.4
172.5°	15.4
175°	16.3
177.5°	16.3
180°	17.1

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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	24.66	26.12	25.02	26.44	26.75	24.66	26.12	25.02	26.44	26.75
	3H	25.43	26.73	25.81	27.06	27.42	25.43	26.73	25.81	27.06	27.42
	4H	25.64	26.85	26.04	27.20	27.59	25.64	26.85	26.04	27.20	27.59
	6H	25.74	26.86	26.15	27.23	27.62	25.74	26.86	26.15	27.23	27.62
	8H	25.75	26.81	26.18	27.20	27.60	25.75	26.81	26.18	27.20	27.60
	12H	25.73	26.74	26.16	27.13	27.56	25.73	26.74	26.16	27.13	27.56
4H	2H	24.93	26.15	25.34	26.50	26.88	24.93	26.15	25.34	26.50	26.88
	3H	25.87	26.86	26.28	27.26	27.66	25.87	26.86	26.28	27.26	27.66
	4H	26.15	27.03	26.58	27.45	27.89	26.15	27.03	26.58	27.45	27.89
	6H	26.31	27.08	26.77	27.53	27.99	26.31	27.08	26.77	27.53	27.99
	8H	26.33	27.05	26.80	27.49	27.96	26.33	27.05	26.80	27.49	27.96
	12H	26.32	26.96	26.80	27.44	27.91	26.32	26.96	26.80	27.44	27.91
8H	4H	26.21	26.92	26.67	27.37	27.84	26.21	26.92	26.67	27.37	27.84
	6H	26.41	27.00	26.91	27.50	27.98	26.41	27.00	26.91	27.50	27.98
	8H	26.44	26.98	26.96	27.49	27.98	26.44	26.98	26.96	27.49	27.98
	12H	26.45	26.92	26.96	27.42	27.98	26.45	26.92	26.96	27.42	27.98
12H	4H	26.19	26.82	26.67	27.31	27.78	26.19	26.82	26.67	27.31	27.78
	6H	26.39	26.92	26.90	27.43	27.92	26.39	26.92	26.90	27.43	27.92
	8H	26.45	26.92	26.96	27.41	27.98	26.45	26.92	26.96	27.41	27.98