

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: P1036847

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036847
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-3500K
Description: UHBS Selectable High Bay at LOW lumen, 3500K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

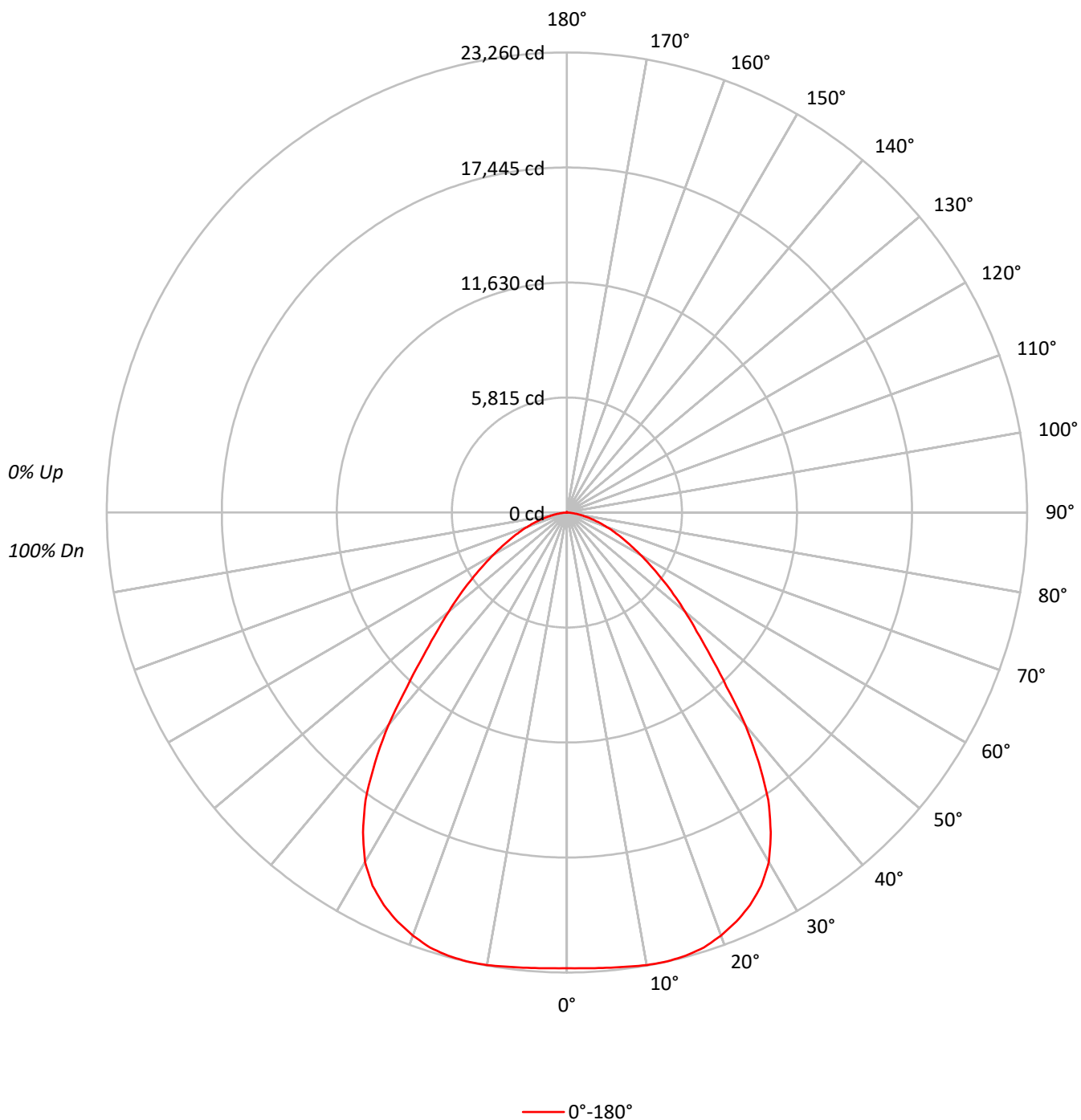
Lumens per Lamp: N/A
Luminaire Lumens: 47951.9 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	113690
5°	114436
10°	116422
15°	118503
20°	119506
25°	119213
30°	116273
35°	106874
40°	90423
45°	71552
50°	59790
55°	50367
60°	42586
65°	36269
70°	30884
75°	25537
80°	18914
85°	11797

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 71552 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2209.8	4.6
10°-20°	6549.7	13.7
20°-30°	10052.7	21.0
30°-40°	10927.1	22.8
40°-50°	8067.4	16.8
50°-60°	5294.4	11.0
60°-70°	3117.3	6.5
70°-80°	1429.3	3.0
80°-90°	279.2	0.6
90°-100°	0.9	0.0
100°-110°	0.8	0.0
110°-120°	0.9	0.0
120°-130°	1.9	0.0
130°-140°	3.8	0.0
140°-150°	5.3	0.0
150°-160°	5.4	0.0
160°-170°	4.4	0.0
170°-180°	1.7	0.0
0°-30°	18812.2	39.2
0°-40°	29739.3	62.0
0°-60°	43101.1	89.9
0°-90°	47926.9	99.9
90°-120°	2.6	0.0
90°-150°	13.6	0.0
90°-180°	25.0	0.1
0°-180°	47951.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23043	
5°	23106	###
15°	23200	6550
25°	21899	10053
35°	17744	10927
45°	10255	8067
55°	5855	5294
65°	3107	3117
75°	1340	1429
85°	208	271
90°	2	8
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	5	4
145°	8	5
155°	12	5
165°	16	4
175°	18	2
180°	19	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	23043.0
2.5°	23063.7
5°	23105.9
7.5°	23164.6
10°	23238.2
12.5°	23259.7
15°	23200.1
17.5°	23055.4
20°	22761.0
22.5°	22388.9
25°	21898.6
27.5°	21270.9
30°	20409.3
32.5°	19179.6
35°	17744.1
37.5°	15929.0
40°	14039.5
42.5°	11939.9
45°	10254.7
47.5°	8896.9
50°	7789.6
52.5°	6797.3
55°	5855.4
57.5°	5033.5
60°	4315.7
62.5°	3677.3
65°	3106.7
67.5°	2604.8
70°	2140.9
72.5°	1725.0
75°	1339.6
77.5°	958.4
80°	665.7
82.5°	428.3
85°	208.4
87.5°	56.2
90°	2.5
92.5°	0.0
95°	0.8
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°	0.8
120°	1.7
122.5°	1.7
125°	1.7
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°	9.9
150°	9.9
152.5°	10.7
155°	11.6
157.5°	12.4
160°	14.1
162.5°	14.9
165°	15.7
167.5°	16.5
170°	17.4
172.5°	17.4
175°	18.2
177.5°	19.0
180°	19.0

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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	24.17	25.58	24.54	25.90	26.21	24.17	25.58	24.54	25.90	26.21
	3H	25.32	26.57	25.70	26.90	27.27	25.32	26.57	25.70	26.90	27.27
	4H	25.68	26.85	26.08	27.20	27.59	25.68	26.85	26.08	27.20	27.59
	6H	25.87	26.95	26.28	27.32	27.71	25.87	26.95	26.28	27.32	27.71
	8H	25.90	26.93	26.33	27.32	27.72	25.90	26.93	26.33	27.32	27.72
	12H	25.91	26.89	26.34	27.27	27.70	25.91	26.89	26.34	27.27	27.70
4H	2H	24.56	25.73	24.96	26.09	26.47	24.56	25.73	24.96	26.09	26.47
	3H	25.90	26.87	26.31	27.27	27.67	25.90	26.87	26.31	27.27	27.67
	4H	26.36	27.22	26.79	27.64	28.08	26.36	27.22	26.79	27.64	28.08
	6H	26.63	27.37	27.09	27.82	28.28	26.63	27.37	27.09	27.82	28.28
	8H	26.68	27.38	27.15	27.83	28.30	26.68	27.38	27.15	27.83	28.30
	12H	26.70	27.32	27.19	27.80	28.28	26.70	27.32	27.19	27.80	28.28
8H	4H	26.49	27.18	26.96	27.63	28.10	26.49	27.18	26.96	27.63	28.10
	6H	26.82	27.39	27.32	27.89	28.37	26.82	27.39	27.32	27.89	28.37
	8H	26.91	27.42	27.43	27.94	28.43	26.91	27.42	27.43	27.94	28.43
	12H	26.96	27.41	27.47	27.91	28.48	26.96	27.41	27.47	27.91	28.48
12H	4H	26.47	27.09	26.96	27.58	28.05	26.47	27.09	26.96	27.58	28.05
	6H	26.81	27.32	27.33	27.84	28.33	26.81	27.32	27.33	27.84	28.33
	8H	26.94	27.39	27.45	27.88	28.45	26.94	27.39	27.45	27.88	28.45