

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: P1036845

Luminaire Tested: UHBS2-4860-L8C5-HI-W-6500K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036845
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-HI-W-6500K
Description: UHBS Selectable High Bay at HI lumen, 6500K CCT settings with Wide beam
Light Source: -
Ballast/Driver: -

Summary

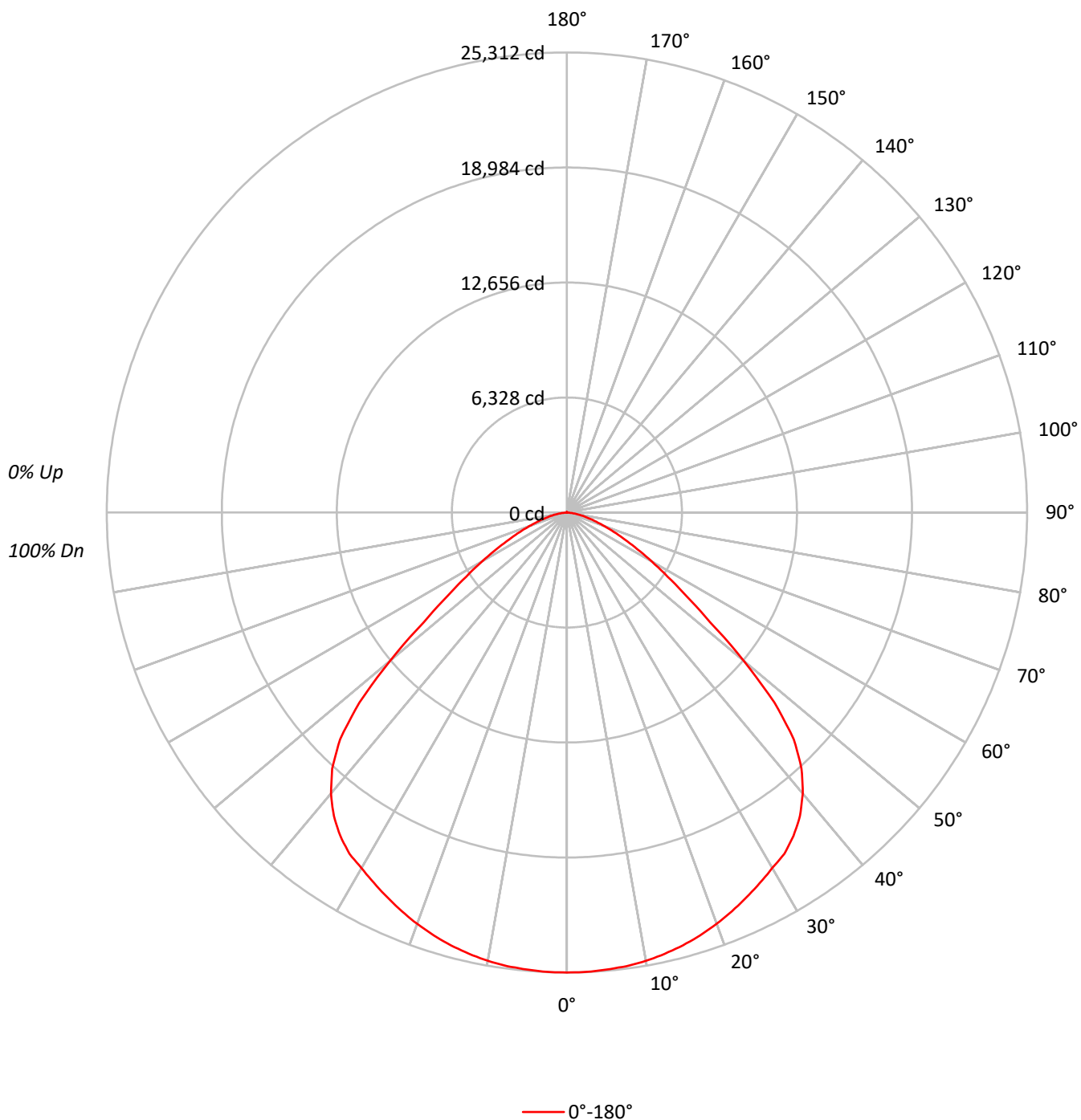
Lumens per Lamp: N/A
Luminaire Lumens: 59623.1 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.41
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 386.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9981
Total Harmonic Distortion (THDi): 3.1344
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°	124886
5°	125029
10°	125512
15°	125931
20°	126471
25°	127220
30°	128718
35°	130886
40°	130006
45°	123091
50°	97410
55°	68924
60°	53053
65°	40932
70°	31684
75°	24475
80°	17903
85°	8525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 123091 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2404.0	4.0
10°-20°	6965.7	11.7
20°-30°	10791.6	18.1
30°-40°	13546.1	22.7
40°-50°	13216.6	22.2
50°-60°	7463.1	12.5
60°-70°	3566.1	6.0
70°-80°	1402.9	2.4
80°-90°	238.7	0.4
90°-100°	0.8	0.0
100°-110°	1.1	0.0
110°-120°	1.4	0.0
120°-130°	2.5	0.0
130°-140°	4.6	0.0
140°-150°	6.1	0.0
150°-160°	5.6	0.0
160°-170°	4.4	0.0
170°-180°	1.7	0.0
0°-30°	20161.3	33.8
0°-40°	33707.4	56.5
0°-60°	54387.2	91.2
0°-90°	59594.9	100.0
90°-120°	3.2	0.0
90°-150°	16.3	0.0
90°-180°	28.0	0.0
0°-180°	59623.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	25312	
5°	25245	###
15°	24654	6966
25°	23369	10792
35°	21731	13546
45°	17641	13217
55°	8013	7463
65°	3506	3566
75°	1284	1403
85°	151	233
90°	3	7
95°	0	0
105°	1	1
115°	1	1
125°	3	2
135°	6	5
145°	10	6
155°	12	6
165°	16	4
175°	19	2
180°	20	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	25312.2
2.5°	25299.3
5°	25244.8
7.5°	25172.5
10°	25052.6
12.5°	24870.3
15°	24654.4
17.5°	24393.8
20°	24087.7
22.5°	23738.0
25°	23369.4
27.5°	22986.0
30°	22593.7
32.5°	22262.8
35°	21730.8
37.5°	21058.1
40°	20185.3
42.5°	19105.5
45°	17641.2
47.5°	15481.5
50°	12690.8
52.5°	9940.6
55°	8012.7
57.5°	6559.4
60°	5376.5
62.5°	4366.0
65°	3506.1
67.5°	2792.8
70°	2196.4
72.5°	1700.0
75°	1283.9
77.5°	930.3
80°	630.1
82.5°	369.5
85°	150.6
87.5°	41.6
90°	3.0
92.5°	0.0
95°	0.0
97.5°	1.0
100°	1.0
102.5°	1.0
105°	1.0
107.5°	1.0
110°	1.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.0
115°	1.0
117.5°	2.0
120°	2.0
122.5°	2.0
125°	3.0
127.5°	3.0
130°	4.0
132.5°	5.0
135°	5.9
137.5°	6.9
140°	7.9
142.5°	8.9
145°	9.9
147.5°	10.9
150°	10.9
152.5°	11.9
155°	11.9
157.5°	12.9
160°	13.9
162.5°	14.9
165°	15.9
167.5°	16.8
170°	17.8
172.5°	17.8
175°	18.8
177.5°	18.8
180°	19.8

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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	25.16	26.63	25.53	26.94	27.26	25.16	26.63	25.53	26.94	27.26
	3H	25.94	27.24	26.32	27.57	27.93	25.94	27.24	26.32	27.57	27.93
	4H	26.15	27.36	26.55	27.71	28.09	26.15	27.36	26.55	27.71	28.09
	6H	26.25	27.36	26.66	27.73	28.13	26.25	27.36	26.66	27.73	28.13
	8H	26.25	27.31	26.68	27.70	28.11	26.25	27.31	26.68	27.70	28.11
	12H	26.24	27.25	26.67	27.63	28.06	26.24	27.25	26.67	27.63	28.06
4H	2H	25.44	26.65	25.84	27.00	27.39	25.44	26.65	25.84	27.00	27.39
	3H	26.37	27.36	26.78	27.77	28.17	26.37	27.36	26.78	27.77	28.17
	4H	26.65	27.54	27.09	27.96	28.40	26.65	27.54	27.09	27.96	28.40
	6H	26.82	27.59	27.28	28.03	28.50	26.82	27.59	27.28	28.03	28.50
	8H	26.84	27.55	27.30	28.00	28.47	26.84	27.55	27.30	28.00	28.47
	12H	26.83	27.46	27.31	27.94	28.42	26.83	27.46	27.31	27.94	28.42
8H	4H	26.71	27.43	27.18	27.88	28.35	26.71	27.43	27.18	27.88	28.35
	6H	26.92	27.51	27.42	28.00	28.48	26.92	27.51	27.42	28.00	28.48
	8H	26.95	27.48	27.47	27.99	28.49	26.95	27.48	27.47	27.99	28.49
	12H	26.95	27.43	27.47	27.92	28.49	26.95	27.43	27.47	27.92	28.49
12H	4H	26.69	27.33	27.18	27.81	28.29	26.69	27.33	27.18	27.81	28.29
	6H	26.89	27.42	27.41	27.94	28.43	26.89	27.42	27.41	27.94	28.43
	8H	26.95	27.42	27.46	27.92	28.49	26.95	27.42	27.46	27.92	28.49