

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: P1036860

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036860
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-6500K
Description: UHBS Selectable High Bay at LOW lumen, 6500K CCT settings with Wide beam
Light Source: -
Ballast/Driver: -

Summary

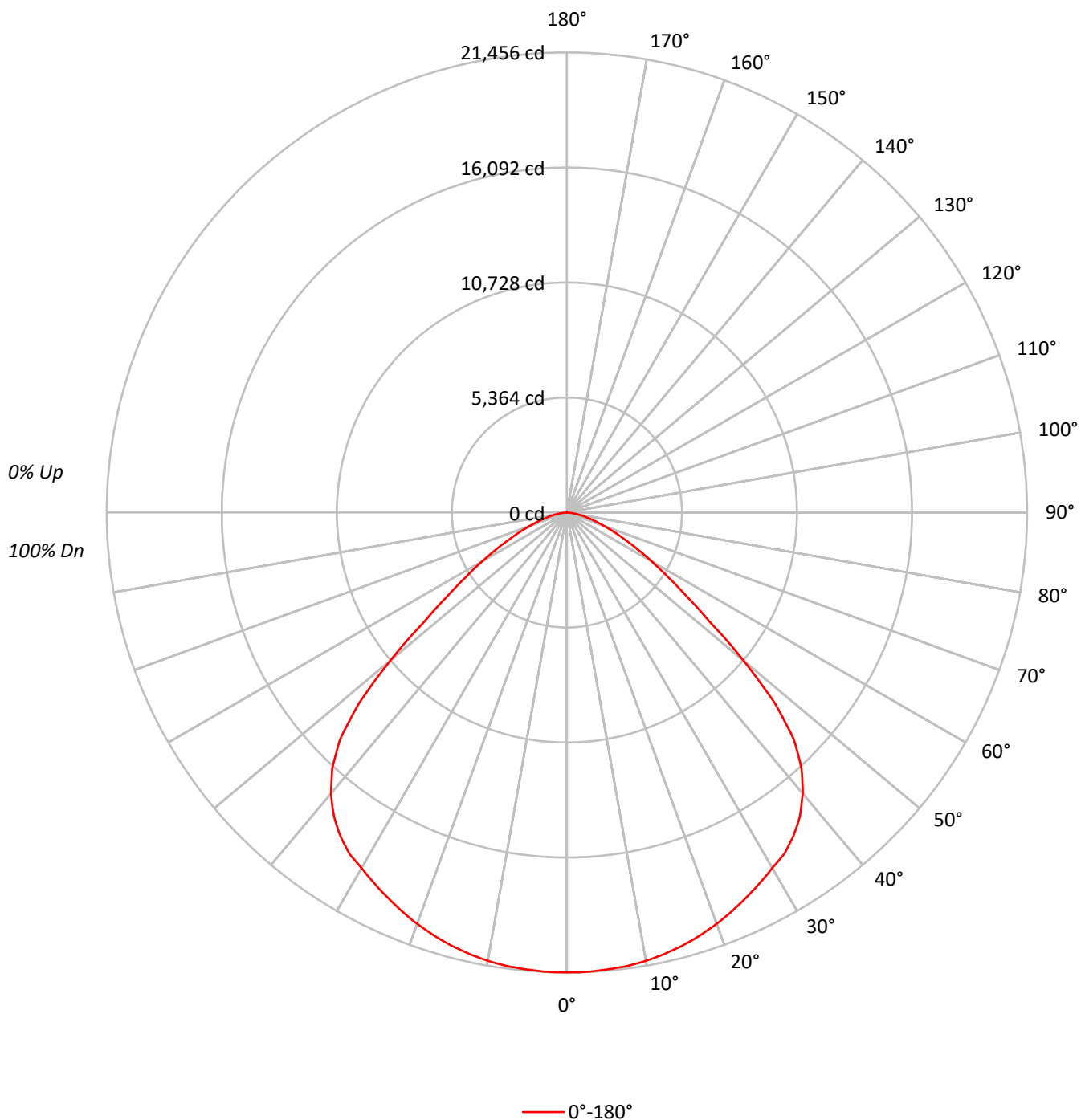
Lumens per Lamp: N/A
Luminaire Lumens: 50538.9 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.41
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 316.5
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°	105858
5°	105980
10°	106389
15°	106745
20°	107202
25°	107837
30°	109107
35°	110945
40°	110199
45°	104338
50°	82569
55°	58423
60°	44970
65°	34695
70°	26856
75°	20746
80°	15175
85°	7223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 104338 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2037.8	4.0
10°-20°	5904.4	11.7
20°-30°	9147.4	18.1
30°-40°	11482.3	22.7
40°-50°	11203.0	22.2
50°-60°	6326.0	12.5
60°-70°	3022.8	6.0
70°-80°	1189.2	2.4
80°-90°	202.3	0.4
90°-100°	0.7	0.0
100°-110°	0.8	0.0
110°-120°	1.1	0.0
120°-130°	2.1	0.0
130°-140°	3.9	0.0
140°-150°	5.2	0.0
150°-160°	4.8	0.0
160°-170°	3.8	0.0
170°-180°	1.5	0.0
0°-30°	17089.6	33.8
0°-40°	28571.9	56.5
0°-60°	46100.9	91.2
0°-90°	50515.1	100.0
90°-120°	2.6	0.0
90°-150°	13.7	0.0
90°-180°	24.0	0.0
0°-180°	50538.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21456	
5°	21399	###
15°	20898	5904
25°	19809	9147
35°	18420	11482
45°	14954	11203
55°	6792	6326
65°	2972	3023
75°	1088	1189
85°	128	197
90°	2	6
95°	0	0
105°	1	1
115°	1	1
125°	2	2
135°	5	4
145°	8	5
155°	10	5
165°	13	4
175°	16	1
180°	17	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	21455.7
2.5°	21444.8
5°	21398.6
7.5°	21337.3
10°	21235.7
12.5°	21081.1
15°	20898.1
17.5°	20677.2
20°	20417.7
22.5°	20121.3
25°	19808.9
27.5°	19483.9
30°	19151.4
32.5°	18870.9
35°	18420.0
37.5°	17849.8
40°	17110.0
42.5°	16194.6
45°	14953.5
47.5°	13122.8
50°	10757.2
52.5°	8426.1
55°	6791.9
57.5°	5560.0
60°	4557.3
62.5°	3700.8
65°	2971.9
67.5°	2367.3
70°	1861.7
72.5°	1441.0
75°	1088.3
77.5°	788.5
80°	534.1
82.5°	313.2
85°	127.6
87.5°	35.3
90°	2.5
92.5°	0.0
95°	0.0
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°	1.7
120°	1.7
122.5°	1.7
125°	2.5
127.5°	2.5
130°	3.4
132.5°	4.2
135°	5.0
137.5°	5.9
140°	6.7
142.5°	7.6
145°	8.4
147.5°	9.2
150°	9.2
152.5°	10.1
155°	10.1
157.5°	10.9
160°	11.8
162.5°	12.6
165°	13.4
167.5°	14.3
170°	15.1
172.5°	15.1
175°	16.0
177.5°	16.0
180°	16.8

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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	24.59	26.05	24.96	26.37	26.69	24.59	26.05	24.96	26.37	26.69
	3H	25.36	26.66	25.74	26.99	27.36	25.36	26.66	25.74	26.99	27.36
	4H	25.57	26.79	25.97	27.14	27.52	25.57	26.79	25.97	27.14	27.52
	6H	25.67	26.79	26.09	27.16	27.55	25.67	26.79	26.09	27.16	27.55
	8H	25.68	26.74	26.11	27.13	27.53	25.68	26.74	26.11	27.13	27.53
	12H	25.66	26.68	26.09	27.06	27.49	25.66	26.68	26.09	27.06	27.49
4H	2H	24.87	26.08	25.27	26.43	26.81	24.87	26.08	25.27	26.43	26.81
	3H	25.80	26.79	26.21	27.19	27.60	25.80	26.79	26.21	27.19	27.60
	4H	26.08	26.97	26.51	27.38	27.83	26.08	26.97	26.51	27.38	27.83
	6H	26.25	27.01	26.71	27.46	27.92	26.25	27.01	26.71	27.46	27.92
	8H	26.26	26.98	26.73	27.42	27.89	26.26	26.98	26.73	27.42	27.89
	12H	26.25	26.89	26.74	27.37	27.84	26.25	26.89	26.74	27.37	27.84
8H	4H	26.14	26.86	26.61	27.30	27.77	26.14	26.86	26.61	27.30	27.77
	6H	26.34	26.93	26.84	27.43	27.91	26.34	26.93	26.84	27.43	27.91
	8H	26.38	26.91	26.89	27.42	27.91	26.38	26.91	26.89	27.42	27.91
	12H	26.38	26.85	26.89	27.35	27.92	26.38	26.85	26.89	27.35	27.92
12H	4H	26.12	26.76	26.60	27.24	27.71	26.12	26.76	26.60	27.24	27.71
	6H	26.32	26.85	26.84	27.36	27.85	26.32	26.85	26.84	27.36	27.85
	8H	26.38	26.85	26.89	27.34	27.91	26.38	26.85	26.89	27.34	27.91

END OF REPORT