

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: P1036854

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-430-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/30/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-4860-L8C5-LOW-N-5000K
Description: UHBS Selectable High Bay at LOW lumen, 5000K CCT settings with Narrow beam
Light Source: -
Ballast/Driver: -

Summary

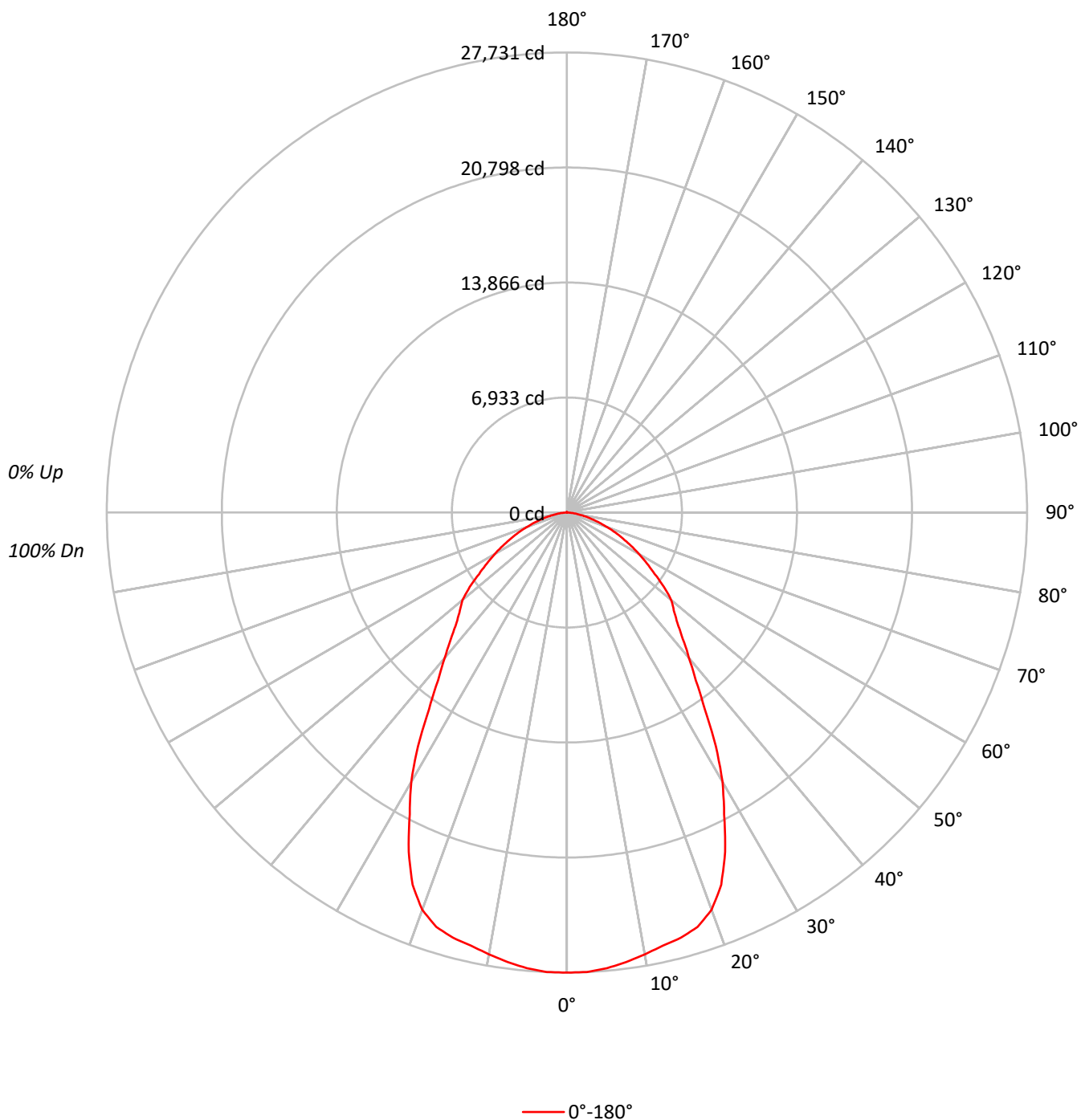
Lumens per Lamp: N/A
Luminaire Lumens: 48590.1 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1036854

CATALOG NUMBER: UHBS2-4860-L8C5-LOW-N-5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1036854

CATALOG NUMBER: UHBS2-4860-L8C5-LOW-N-5000K

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	104	101	98	100	98	95		96	94	92		93
2	102	95	90	85	100	94	88	84	90	86	82		87	83	80		84
3	95	86	79	73	92	84	78	72	81	76	71		79	74	70		76
4	88	77	70	64	86	76	69	63	74	68	63		71	66	62		69
5	82	70	62	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	46	70	58	51	46	57	50	45		55	49	45		54
8	67	55	47	42	65	54	47	41	53	46	41		51	45	41		50
9	63	51	43	38	61	50	43	38	49	42	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	136818
5°	136560
10°	135487
15°	135551
20°	133831
25°	122835
30°	106803
35°	87200
40°	73725
45°	65582
50°	62994
55°	55589
60°	49657
65°	43641
70°	37162
75°	30382
80°	23821
85°	16966

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 65582 cd/sqm

TEST NUMBER: P1036854

CATALOG NUMBER: UHBS2-4860-L8C5-LOW-N-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2614.8	5.4
10°-20°	7472.9	15.4
20°-30°	10259.8	21.1
30°-40°	9179.8	18.9
40°-50°	7382.0	15.2
50°-60°	5843.6	12.0
60°-70°	3721.6	7.7
70°-80°	1720.1	3.5
80°-90°	371.7	0.8
90°-100°	0.2	0.0
100°-110°	0.6	0.0
110°-120°	0.9	0.0
120°-130°	1.5	0.0
130°-140°	3.3	0.0
140°-150°	5.1	0.0
150°-160°	5.6	0.0
160°-170°	4.8	0.0
170°-180°	1.9	0.0
0°-30°	20347.5	41.9
0°-40°	29527.3	60.8
0°-60°	42752.9	88.0
0°-90°	48566.4	100.0
90°-120°	1.7	0.0
90°-150°	11.7	0.0
90°-180°	24.0	0.0
0°-180°	48590.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	27731	
5°	27573	###
15°	26538	7473
25°	22564	10260
35°	14478	9180
45°	9399	7382
55°	6462	5844
65°	3738	3722
75°	1594	1720
85°	300	360
90°	2	12
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	4	3
145°	9	5
155°	12	6
165°	17	5
175°	21	2
180°	21	

TEST NUMBER: P1036854

CATALOG NUMBER: UHBS2-4860-L8C5-LOW-N-5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	27730.6
2.5°	27725.5
5°	27573.1
7.5°	27337.5
10°	27043.8
12.5°	26736.3
15°	26537.7
17.5°	26188.2
20°	25489.4
22.5°	24291.3
25°	22563.9
27.5°	20516.2
30°	18746.9
32.5°	16703.5
35°	14477.7
37.5°	12761.4
40°	11446.8
42.5°	10341.2
45°	9399.1
47.5°	8737.1
50°	8207.0
52.5°	7378.8
55°	6462.5
57.5°	5716.6
60°	5032.3
62.5°	4359.1
65°	3738.2
67.5°	3157.6
70°	2576.1
72.5°	2064.0
75°	1593.8
77.5°	1164.7
80°	838.4
82.5°	566.1
85°	299.7
87.5°	81.4
90°	1.7
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.9
110°	0.9

TEST NUMBER: P1036854

CATALOG NUMBER: UHBS2-4860-L8C5-LOW-N-5000K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	0.9
120°	0.9
122.5°	1.7
125°	1.7
127.5°	1.7
130°	2.6
132.5°	3.4
135°	4.3
137.5°	5.1
140°	6.0
142.5°	6.9
145°	8.6
147.5°	9.4
150°	10.3
152.5°	11.1
155°	12.0
157.5°	13.7
160°	14.6
162.5°	16.3
165°	17.1
167.5°	18.0
170°	18.8
172.5°	19.7
175°	20.6
177.5°	20.6
180°	21.4

TEST NUMBER: P1036854

CATALOG NUMBER: UHBS2-4860-L8C5-LOW-N-5000K

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	25.00	26.43	25.36	26.74	27.06	25.00	26.43	25.36	26.74	27.06
	3H	26.28	27.55	26.65	27.88	28.25	26.28	27.55	26.65	27.88	28.25
	4H	26.66	27.86	27.06	28.21	28.59	26.66	27.86	27.06	28.21	28.59
	6H	26.88	27.98	27.29	28.35	28.74	26.88	27.98	27.29	28.35	28.74
	8H	26.93	27.98	27.36	28.37	28.78	26.93	27.98	27.36	28.37	28.78
	12H	26.95	27.95	27.38	28.34	28.77	26.95	27.95	27.38	28.34	28.77
4H	2H	25.45	26.64	25.85	26.99	27.38	25.45	26.64	25.85	26.99	27.38
	3H	26.91	27.90	27.32	28.30	28.70	26.91	27.90	27.32	28.30	28.70
	4H	27.39	28.27	27.82	28.69	29.13	27.39	28.27	27.82	28.69	29.13
	6H	27.69	28.46	28.15	28.91	29.37	27.69	28.46	28.15	28.91	29.37
	8H	27.77	28.49	28.24	28.94	29.41	27.77	28.49	28.24	28.94	29.41
	12H	27.82	28.45	28.30	28.93	29.41	27.82	28.45	28.30	28.93	29.41
8H	4H	27.53	28.25	28.00	28.70	29.17	27.53	28.25	28.00	28.70	29.17
	6H	27.91	28.50	28.41	29.00	29.48	27.91	28.50	28.41	29.00	29.48
	8H	28.04	28.57	28.56	29.08	29.57	28.04	28.57	28.56	29.08	29.57
	12H	28.12	28.59	28.64	29.08	29.65	28.12	28.59	28.64	29.08	29.65
12H	4H	27.53	28.17	28.01	28.65	29.12	27.53	28.17	28.01	28.65	29.12
	6H	27.92	28.44	28.43	28.96	29.45	27.92	28.44	28.43	28.96	29.45
	8H	28.08	28.55	28.60	29.04	29.61	28.08	28.55	28.60	29.04	29.61