

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: P1036864

Luminaire Tested: UHBS2-4860-L8C5-MID-M-5000K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036864
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-MID-M-5000K
Description: UHBS Selectable High Bay at MID lumen, 5000K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

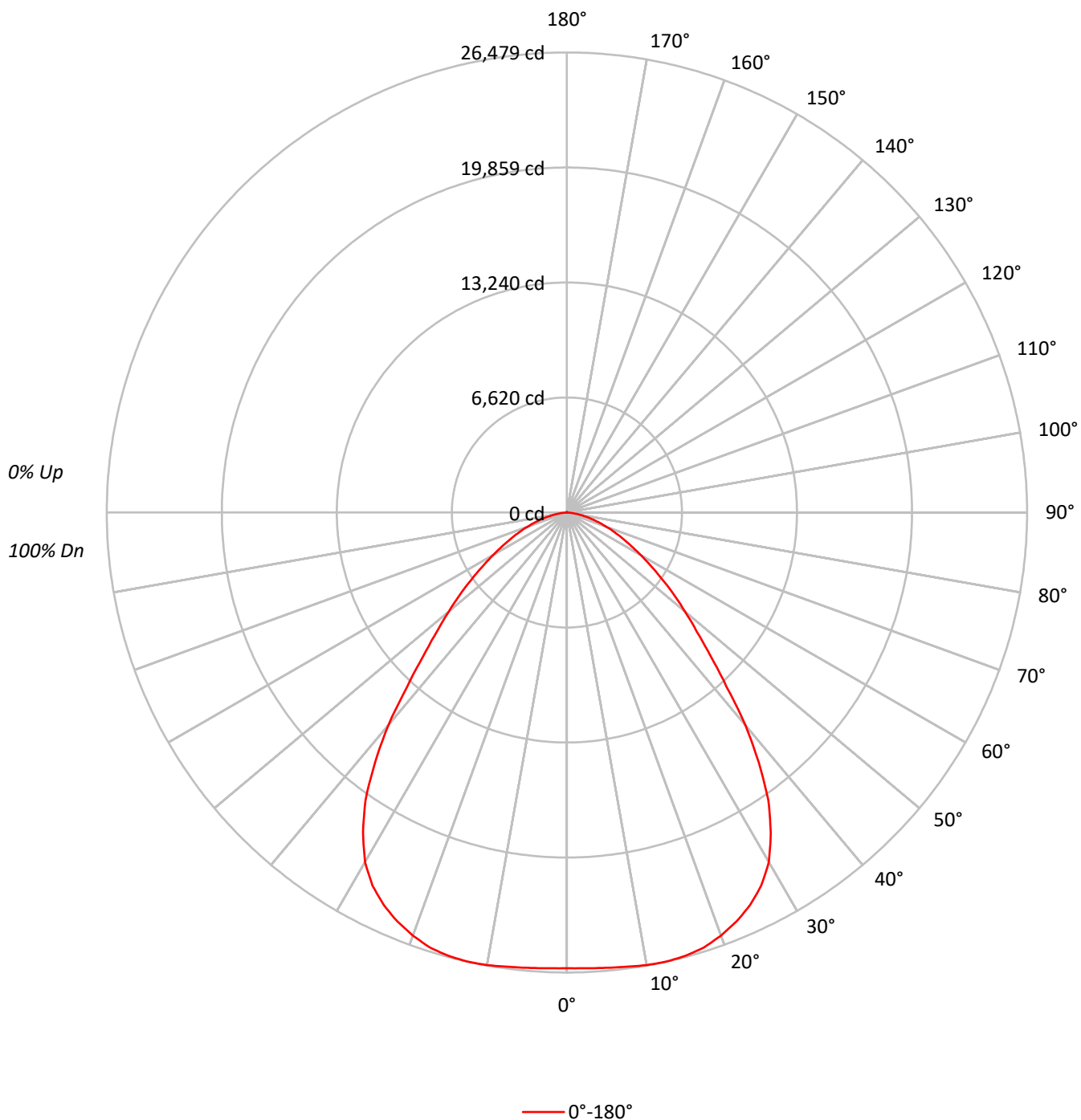
Lumens per Lamp: N/A
Luminaire Lumens: 54588.9 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 348.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9978
Total Harmonic Distortion (THDi): 3.3895
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1036864

CATALOG NUMBER: UHBS2-4860-L8C5-MID-M-5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1036864

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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°	129426
5°	130274
10°	132536
15°	134905
20°	136047
25°	135713
30°	132366
35°	121667
40°	102939
45°	81455
50°	68066
55°	57339
60°	48480
65°	41290
70°	35158
75°	29071
80°	21531
85°	13428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 81455 cd/sqm

TEST NUMBER: P1036864

CATALOG NUMBER: UHBS2-4860-L8C5-MID-M-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2515.6	4.6
10°-20°	7456.3	13.7
20°-30°	11444.1	21.0
30°-40°	12439.5	22.8
40°-50°	9184.0	16.8
50°-60°	6027.2	11.0
60°-70°	3548.8	6.5
70°-80°	1627.1	3.0
80°-90°	317.8	0.6
90°-100°	1.0	0.0
100°-110°	1.0	0.0
110°-120°	1.0	0.0
120°-130°	2.1	0.0
130°-140°	4.3	0.0
140°-150°	6.0	0.0
150°-160°	6.1	0.0
160°-170°	5.0	0.0
170°-180°	1.9	0.0
0°-30°	21416.0	39.2
0°-40°	33855.5	62.0
0°-60°	49066.7	89.9
0°-90°	54560.4	99.9
90°-120°	3.0	0.0
90°-150°	15.4	0.0
90°-180°	28.0	0.1
0°-180°	54588.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	26232	
5°	26304	###
15°	26411	7456
25°	24930	11444
35°	20200	12439
45°	11674	9184
55°	6666	6027
65°	3537	3549
75°	1525	1627
85°	237	309
90°	3	10
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	6	4
145°	9	6
155°	13	6
165°	18	5
175°	21	2
180°	22	

TEST NUMBER: P1036864

CATALOG NUMBER: UHBS2-4860-L8C5-MID-M-5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	26232.4
2.5°	26255.9
5°	26303.9
7.5°	26370.8
10°	26454.6
12.5°	26479.0
15°	26411.3
17.5°	26246.5
20°	25911.4
22.5°	25487.8
25°	24929.5
27.5°	24215.0
30°	23234.1
32.5°	21834.3
35°	20200.1
37.5°	18133.7
40°	15982.7
42.5°	13592.5
45°	11674.0
47.5°	10128.3
50°	8867.8
52.5°	7738.1
55°	6665.9
57.5°	5730.2
60°	4913.0
62.5°	4186.3
65°	3536.8
67.5°	2965.3
70°	2437.2
72.5°	1963.7
75°	1525.0
77.5°	1091.1
80°	757.8
82.5°	487.6
85°	237.2
87.5°	64.0
90°	2.8
92.5°	0.0
95°	0.9
97.5°	0.9
100°	0.9
102.5°	0.9
105°	0.9
107.5°	0.9
110°	0.9

TEST NUMBER: P1036864

CATALOG NUMBER: UHBS2-4860-L8C5-MID-M-5000K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	0.9
120°	1.9
122.5°	1.9
125°	1.9
127.5°	2.8
130°	3.8
132.5°	4.7
135°	5.6
137.5°	6.6
140°	7.5
142.5°	8.5
145°	9.4
147.5°	11.3
150°	11.3
152.5°	12.2
155°	13.2
157.5°	14.1
160°	16.0
162.5°	16.9
165°	17.9
167.5°	18.8
170°	19.8
172.5°	19.8
175°	20.7
177.5°	21.7
180°	21.7

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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	24.62	26.03	24.99	26.35	26.66	24.62	26.03	24.99	26.35	26.66
	3H	25.77	27.02	26.15	27.35	27.72	25.77	27.02	26.15	27.35	27.72
	4H	26.13	27.30	26.53	27.65	28.04	26.13	27.30	26.53	27.65	28.04
	6H	26.32	27.40	26.73	27.77	28.16	26.32	27.40	26.73	27.77	28.16
	8H	26.35	27.38	26.78	27.77	28.17	26.35	27.38	26.78	27.77	28.17
	12H	26.36	27.34	26.79	27.72	28.15	26.36	27.34	26.79	27.72	28.15
4H	2H	25.01	26.18	25.42	26.54	26.92	25.01	26.18	25.42	26.54	26.92
	3H	26.35	27.32	26.77	27.72	28.12	26.35	27.32	26.77	27.72	28.12
	4H	26.81	27.67	27.24	28.09	28.53	26.81	27.67	27.24	28.09	28.53
	6H	27.08	27.82	27.54	28.27	28.73	27.08	27.82	27.54	28.27	28.73
	8H	27.13	27.83	27.60	28.28	28.75	27.13	27.83	27.60	28.28	28.75
	12H	27.15	27.77	27.64	28.25	28.73	27.15	27.77	27.64	28.25	28.73
8H	4H	26.94	27.63	27.41	28.08	28.55	26.94	27.63	27.41	28.08	28.55
	6H	27.27	27.84	27.77	28.34	28.82	27.27	27.84	27.77	28.34	28.82
	8H	27.36	27.87	27.88	28.39	28.88	27.36	27.87	27.88	28.39	28.88
	12H	27.41	27.86	27.92	28.36	28.93	27.41	27.86	27.92	28.36	28.93
12H	4H	26.93	27.54	27.41	28.03	28.50	26.93	27.54	27.41	28.03	28.50
	6H	27.26	27.77	27.78	28.29	28.78	27.26	27.77	27.78	28.29	28.78
	8H	27.39	27.84	27.90	28.33	28.90	27.39	27.84	27.90	28.33	28.90