

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: P1036869

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036869
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-MID-N-5000K
Description: UHBS Selectable High Bay at MID lumen, 5000K CCT settings with Narrow beam
Light Source: -
Ballast/Driver: -

Summary

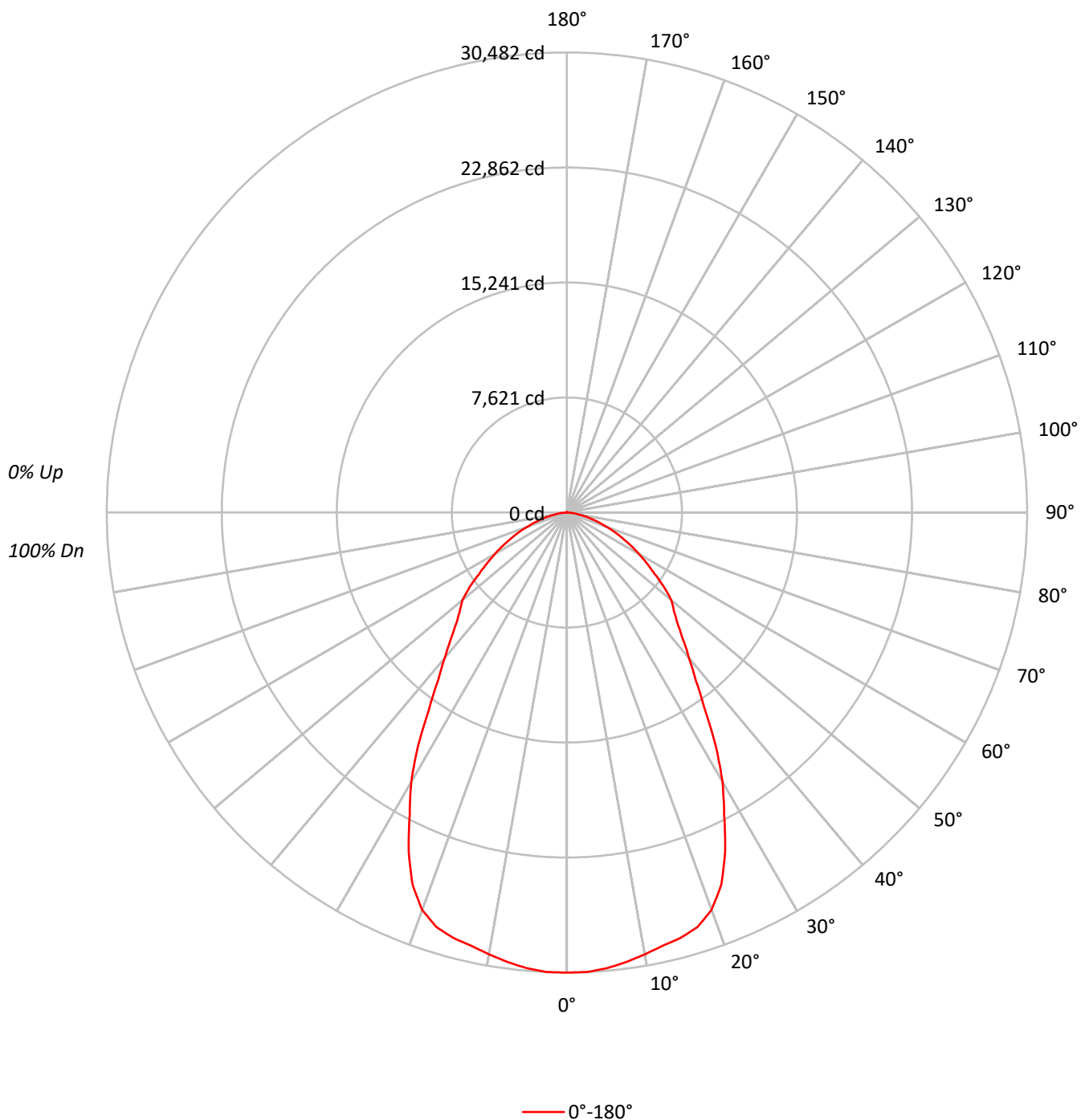
Lumens per Lamp: N/A
Luminaire Lumens: 53411.0 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1036869

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

Luminous Intensity Polar Plot



TEST NUMBER: P1036869

CATALOG NUMBER: UHBS2-4860-L8C5-MID-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°	150392
5°	150109
10°	148930
15°	149000
20°	147109
25°	135022
30°	117399
35°	95852
40°	81039
45°	72089
50°	69244
55°	61105
60°	54584
65°	47971
70°	40849
75°	33396
80°	26185
85°	18653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 72089 cd/sqm

TEST NUMBER: P1036869

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2874.3	5.4
10°-20°	8214.3	15.4
20°-30°	11277.7	21.1
30°-40°	10090.6	18.9
40°-50°	8114.4	15.2
50°-60°	6423.4	12.0
60°-70°	4090.8	7.7
70°-80°	1890.8	3.5
80°-90°	408.6	0.8
90°-100°	0.3	0.0
100°-110°	0.6	0.0
110°-120°	0.9	0.0
120°-130°	1.7	0.0
130°-140°	3.6	0.0
140°-150°	5.6	0.0
150°-160°	6.2	0.0
160°-170°	5.2	0.0
170°-180°	2.1	0.0
0°-30°	22366.3	41.9
0°-40°	32456.9	60.8
0°-60°	46994.7	88.0
0°-90°	53385.0	100.0
90°-120°	1.7	0.0
90°-150°	12.7	0.0
90°-180°	26.0	0.0
0°-180°	53411.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	30482	
5°	30309	###
15°	29171	8214
25°	24803	11278
35°	15914	10091
45°	10332	8114
55°	7104	6423
65°	4109	4091
75°	1752	1891
85°	330	396
90°	2	13
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	5	4
145°	9	6
155°	13	6
165°	19	5
175°	23	2
180°	24	

TEST NUMBER: P1036869

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	30482.0
2.5°	30476.4
5°	30308.8
7.5°	30049.9
10°	29727.0
12.5°	29389.1
15°	29170.7
17.5°	28786.6
20°	28018.4
22.5°	26701.4
25°	24802.6
27.5°	22551.8
30°	20606.9
32.5°	18360.8
35°	15914.1
37.5°	14027.6
40°	12582.5
42.5°	11367.2
45°	10331.7
47.5°	9604.0
50°	9021.3
52.5°	8111.0
55°	7103.7
57.5°	6283.7
60°	5531.6
62.5°	4791.6
65°	4109.1
67.5°	3470.9
70°	2831.7
72.5°	2268.7
75°	1751.9
77.5°	1280.3
80°	921.6
82.5°	622.3
85°	329.5
87.5°	89.4
90°	1.9
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: P1036869

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

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	0.9
120°	0.9
122.5°	1.9
125°	1.9
127.5°	1.9
130°	2.8
132.5°	3.8
135°	4.7
137.5°	5.6
140°	6.6
142.5°	7.5
145°	9.4
147.5°	10.4
150°	11.3
152.5°	12.2
155°	13.2
157.5°	15.1
160°	16.0
162.5°	17.9
165°	18.8
167.5°	19.8
170°	20.7
172.5°	21.7
175°	22.6
177.5°	22.6
180°	23.5

TEST NUMBER: P1036869

CATALOG NUMBER: UHBS2-4860-L8C5-MID-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	25.32	26.75	25.69	27.07	27.38	25.32	26.75	25.69	27.07	27.38
	3H	26.60	27.88	26.98	28.21	28.58	26.60	27.88	26.98	28.21	28.58
	4H	26.99	28.19	27.39	28.54	28.92	26.99	28.19	27.39	28.54	28.92
	6H	27.21	28.31	27.62	28.68	29.07	27.21	28.31	27.62	28.68	29.07
	8H	27.26	28.31	27.69	28.70	29.10	27.26	28.31	27.69	28.70	29.10
	12H	27.28	28.28	27.71	28.67	29.10	27.28	28.28	27.71	28.67	29.10
4H	2H	25.77	26.97	26.18	27.32	27.70	25.77	26.97	26.18	27.32	27.70
	3H	27.24	28.23	27.65	28.63	29.03	27.24	28.23	27.65	28.63	29.03
	4H	27.72	28.60	28.15	29.02	29.46	27.72	28.60	28.15	29.02	29.46
	6H	28.02	28.79	28.48	29.24	29.70	28.02	28.79	28.48	29.24	29.70
	8H	28.10	28.82	28.57	29.27	29.74	28.10	28.82	28.57	29.27	29.74
	12H	28.14	28.78	28.63	29.26	29.74	28.14	28.78	28.63	29.26	29.74
8H	4H	27.86	28.58	28.33	29.03	29.50	27.86	28.58	28.33	29.03	29.50
	6H	28.24	28.83	28.74	29.33	29.81	28.24	28.83	28.74	29.33	29.81
	8H	28.37	28.89	28.89	29.41	29.90	28.37	28.89	28.89	29.41	29.90
	12H	28.45	28.92	28.96	29.41	29.98	28.45	28.92	28.96	29.41	29.98
12H	4H	27.86	28.49	28.34	28.97	29.45	27.86	28.49	28.34	28.97	29.45
	6H	28.25	28.77	28.76	29.29	29.78	28.25	28.77	28.76	29.29	29.78
	8H	28.41	28.87	28.92	29.37	29.94	28.41	28.87	28.92	29.37	29.94