

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: P1036868

Luminaire Tested: UHBS2-4860-L8C5-MID-N-4000K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036868
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-4000K
Description: UHBS Selectable High Bay at MID lumen, 4000K CCT settings with Narrow beam
Light Source: -
Ballast/Driver: -

Summary

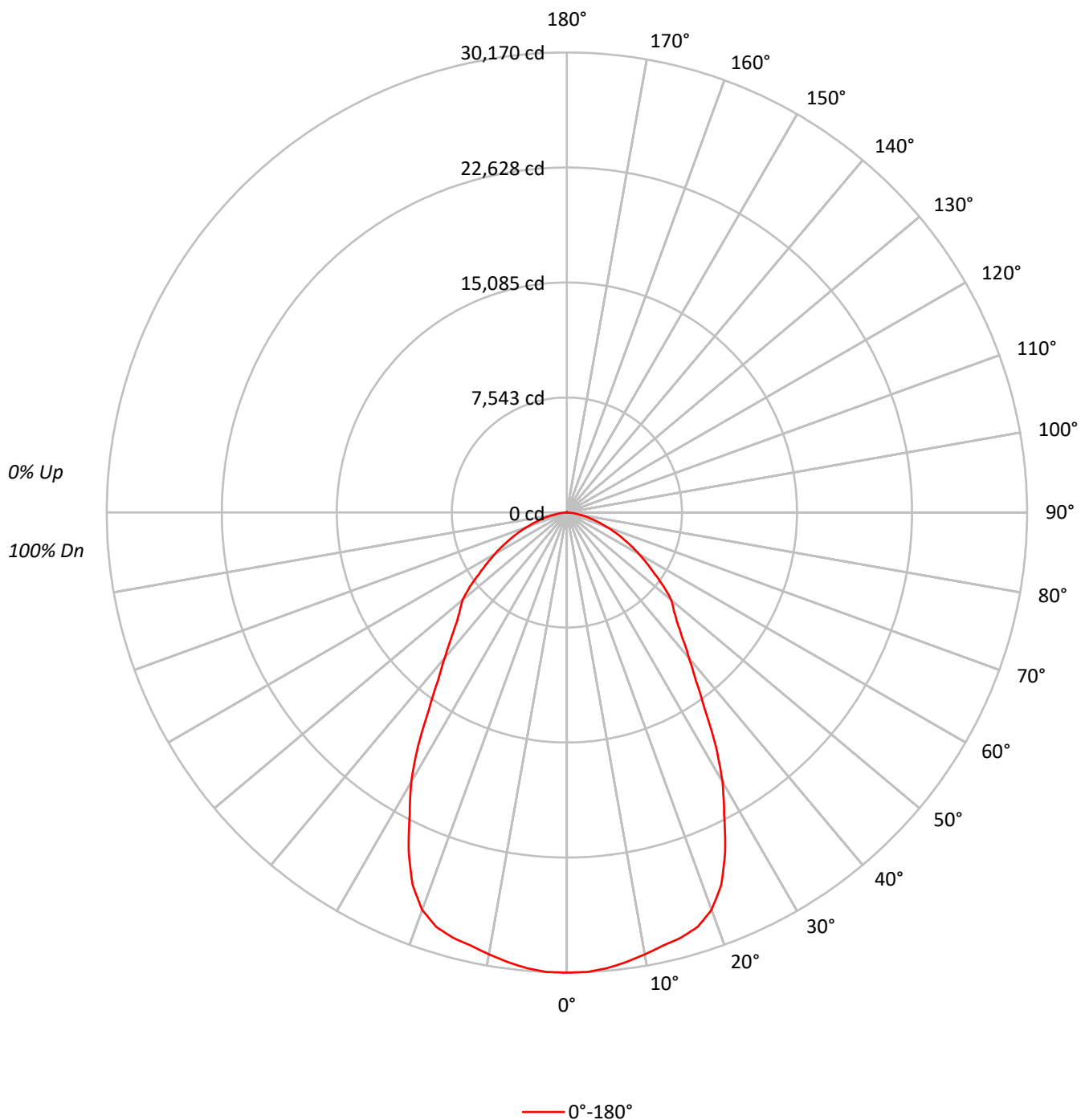
Lumens per Lamp: N/A
Luminaire Lumens: 52865.0 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 346.2
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

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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	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°	148855
5°	148575
10°	147408
15°	147477
20°	145606
25°	133642
30°	116199
35°	94872
40°	80211
45°	71352
50°	68537
55°	60480
60°	54025
65°	47481
70°	40430
75°	33055
80°	25918
85°	18460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 71352 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2844.9	5.4
10°-20°	8130.4	15.4
20°-30°	11162.4	21.1
30°-40°	9987.5	18.9
40°-50°	8031.5	15.2
50°-60°	6357.7	12.0
60°-70°	4049.0	7.7
70°-80°	1871.4	3.5
80°-90°	404.5	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°	6.1	0.0
160°-170°	5.2	0.0
170°-180°	2.1	0.0
0°-30°	22137.7	41.9
0°-40°	32125.1	60.8
0°-60°	46514.3	88.0
0°-90°	52839.3	100.0
90°-120°	1.7	0.0
90°-150°	12.6	0.0
90°-180°	26.0	0.0
0°-180°	52865.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	30170	
5°	29999	###
15°	28872	8130
25°	24549	11162
35°	15751	9987
45°	10226	8031
55°	7031	6358
65°	4067	4049
75°	1734	1871
85°	326	392
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°	22	2
180°	23	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	30170.4
2.5°	30164.8
5°	29999.0
7.5°	29742.7
10°	29423.1
12.5°	29088.6
15°	28872.5
17.5°	28492.3
20°	27732.0
22.5°	26428.5
25°	24549.1
27.5°	22321.3
30°	20396.2
32.5°	18173.1
35°	15751.4
37.5°	13884.2
40°	12453.9
42.5°	11251.0
45°	10226.1
47.5°	9505.8
50°	8929.1
52.5°	8028.0
55°	7031.1
57.5°	6219.5
60°	5475.0
62.5°	4742.7
65°	4067.1
67.5°	3435.4
70°	2802.7
72.5°	2245.5
75°	1734.0
77.5°	1267.2
80°	912.2
82.5°	615.9
85°	326.1
87.5°	88.5
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

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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°	3.7
135°	4.7
137.5°	5.6
140°	6.5
142.5°	7.5
145°	9.3
147.5°	10.2
150°	11.2
152.5°	12.1
155°	13.0
157.5°	14.9
160°	15.8
162.5°	17.7
165°	18.6
167.5°	19.6
170°	20.5
172.5°	21.4
175°	22.4
177.5°	22.4
180°	23.3

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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	25.29	26.72	25.65	27.03	27.35	25.29	26.72	25.65	27.03	27.35
	3H	26.57	27.85	26.95	28.18	28.54	26.57	27.85	26.95	28.18	28.54
	4H	26.95	28.15	27.36	28.50	28.88	26.95	28.15	27.36	28.50	28.88
	6H	27.17	28.27	27.58	28.64	29.04	27.17	28.27	27.58	28.64	29.04
	8H	27.23	28.27	27.65	28.66	29.07	27.23	28.27	27.65	28.66	29.07
	12H	27.24	28.25	27.68	28.63	29.06	27.24	28.25	27.68	28.63	29.06
4H	2H	25.74	26.94	26.14	27.29	27.67	25.74	26.94	26.14	27.29	27.67
	3H	27.20	28.19	27.61	28.59	29.00	27.20	28.19	27.61	28.59	29.00
	4H	27.68	28.57	28.11	28.99	29.43	27.68	28.57	28.11	28.99	29.43
	6H	27.99	28.75	28.45	29.20	29.66	27.99	28.75	28.45	29.20	29.66
	8H	28.07	28.78	28.53	29.23	29.70	28.07	28.78	28.53	29.23	29.70
	12H	28.11	28.75	28.59	29.23	29.70	28.11	28.75	28.59	29.23	29.70
8H	4H	27.83	28.54	28.29	28.99	29.46	27.83	28.54	28.29	28.99	29.46
	6H	28.21	28.80	28.71	29.29	29.77	28.21	28.80	28.71	29.29	29.77
	8H	28.33	28.86	28.85	29.37	29.86	28.33	28.86	28.85	29.37	29.86
	12H	28.42	28.88	28.93	29.37	29.94	28.42	28.88	28.93	29.37	29.94
12H	4H	27.82	28.46	28.31	28.94	29.41	27.82	28.46	28.31	28.94	29.41
	6H	28.21	28.74	28.73	29.25	29.74	28.21	28.74	28.73	29.25	29.74
	8H	28.38	28.84	28.89	29.33	29.90	28.38	28.84	28.89	29.33	29.90