

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: P1036846

Luminaire Tested: UHBS2-4860-L8C5-LOW-M-3000K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036846
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-LOW-M-3000K
Description: UHBS Selectable High Bay at LOW lumen, 3000K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

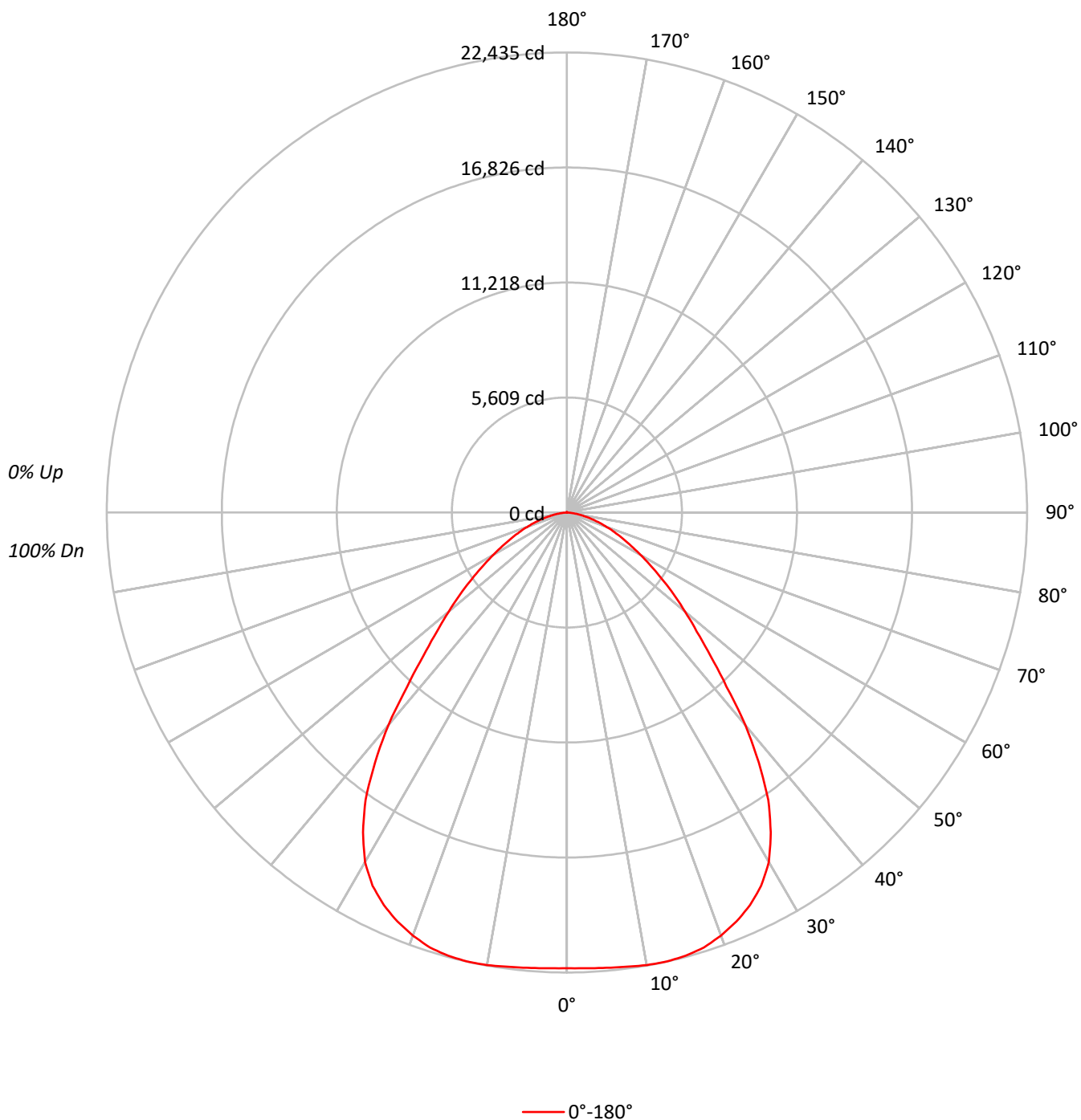
Lumens per Lamp: N/A
Luminaire Lumens: 46252.1 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 317.7
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	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°	109659
5°	110378
10°	112294
15°	114302
20°	115269
25°	114986
30°	112151
35°	103085
40°	87218
45°	69015
50°	57671
55°	48582
60°	41076
65°	34983
70°	29789
75°	24631
80°	18244
85°	11378

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 69015 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2131.4	4.6
10°-20°	6317.5	13.7
20°-30°	9696.3	21.0
30°-40°	10539.7	22.8
40°-50°	7781.4	16.8
50°-60°	5106.7	11.0
60°-70°	3006.8	6.5
70°-80°	1378.6	3.0
80°-90°	269.3	0.6
90°-100°	0.9	0.0
100°-110°	0.8	0.0
110°-120°	0.9	0.0
120°-130°	1.8	0.0
130°-140°	3.7	0.0
140°-150°	5.1	0.0
150°-160°	5.2	0.0
160°-170°	4.3	0.0
170°-180°	1.6	0.0
0°-30°	18145.3	39.2
0°-40°	28685.0	62.0
0°-60°	41573.0	89.9
0°-90°	46227.8	99.9
90°-120°	2.6	0.0
90°-150°	13.2	0.0
90°-180°	24.0	0.1
0°-180°	46252.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22226	
5°	22287	###
15°	22378	6318
25°	21122	9696
35°	17115	10540
45°	9891	7781
55°	5648	5107
65°	2997	3007
75°	1292	1379
85°	201	262
90°	2	8
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	5	4
145°	8	5
155°	11	5
165°	15	4
175°	18	2
180°	18	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	22226.1
2.5°	22246.0
5°	22286.7
7.5°	22343.3
10°	22414.3
12.5°	22435.1
15°	22377.6
17.5°	22238.1
20°	21954.1
22.5°	21595.2
25°	21122.2
27.5°	20516.8
30°	19685.7
32.5°	18499.7
35°	17115.0
37.5°	15364.3
40°	13541.8
42.5°	11516.6
45°	9891.1
47.5°	8581.4
50°	7513.5
52.5°	6556.3
55°	5647.9
57.5°	4855.0
60°	4162.7
62.5°	3547.0
65°	2996.6
67.5°	2512.5
70°	2065.0
72.5°	1663.8
75°	1292.1
77.5°	924.4
80°	642.1
82.5°	413.2
85°	201.0
87.5°	54.2
90°	2.4
92.5°	0.0
95°	0.8
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°	0.8
120°	1.6
122.5°	1.6
125°	1.6
127.5°	2.4
130°	3.2
132.5°	4.0
135°	4.8
137.5°	5.6
140°	6.4
142.5°	7.2
145°	8.0
147.5°	9.6
150°	9.6
152.5°	10.4
155°	11.2
157.5°	12.0
160°	13.6
162.5°	14.4
165°	15.2
167.5°	16.0
170°	16.7
172.5°	16.7
175°	17.5
177.5°	18.3
180°	18.3

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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	24.05	25.46	24.41	25.77	26.09	24.05	25.46	24.41	25.77	26.09
	3H	25.19	26.45	25.57	26.78	27.14	25.19	26.45	25.57	26.78	27.14
	4H	25.56	26.73	25.96	27.08	27.46	25.56	26.73	25.96	27.08	27.46
	6H	25.74	26.82	26.16	27.19	27.59	25.74	26.82	26.16	27.19	27.59
	8H	25.78	26.80	26.21	27.19	27.60	25.78	26.80	26.21	27.19	27.60
	12H	25.78	26.76	26.21	27.14	27.58	25.78	26.76	26.21	27.14	27.58
4H	2H	24.44	25.61	24.84	25.96	26.34	24.44	25.61	24.84	25.96	26.34
	3H	25.78	26.74	26.19	27.14	27.55	25.78	26.74	26.19	27.14	27.55
	4H	26.23	27.10	26.67	27.51	27.96	26.23	27.10	26.67	27.51	27.96
	6H	26.50	27.25	26.96	27.69	28.16	26.50	27.25	26.96	27.69	28.16
	8H	26.56	27.25	27.02	27.70	28.17	26.56	27.25	27.02	27.70	28.17
	12H	26.58	27.19	27.06	27.68	28.15	26.58	27.19	27.06	27.68	28.15
8H	4H	26.36	27.06	26.83	27.51	27.98	26.36	27.06	26.83	27.51	27.98
	6H	26.69	27.26	27.19	27.76	28.24	26.69	27.26	27.19	27.76	28.24
	8H	26.78	27.30	27.30	27.81	28.30	26.78	27.30	27.30	27.81	28.30
	12H	26.83	27.29	27.35	27.78	28.35	26.83	27.29	27.35	27.78	28.35
12H	4H	26.35	26.97	26.83	27.45	27.92	26.35	26.97	26.83	27.45	27.92
	6H	26.68	27.20	27.20	27.71	28.20	26.68	27.20	27.20	27.71	28.20
	8H	26.81	27.26	27.33	27.76	28.33	26.81	27.26	27.33	27.76	28.33