

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: P1036848

Luminaire Tested: UHBS2-4860-L8C5-LOW-M-4000K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036848
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-4000K
Description: UHBS Selectable High Bay at LOW lumen, 4000K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

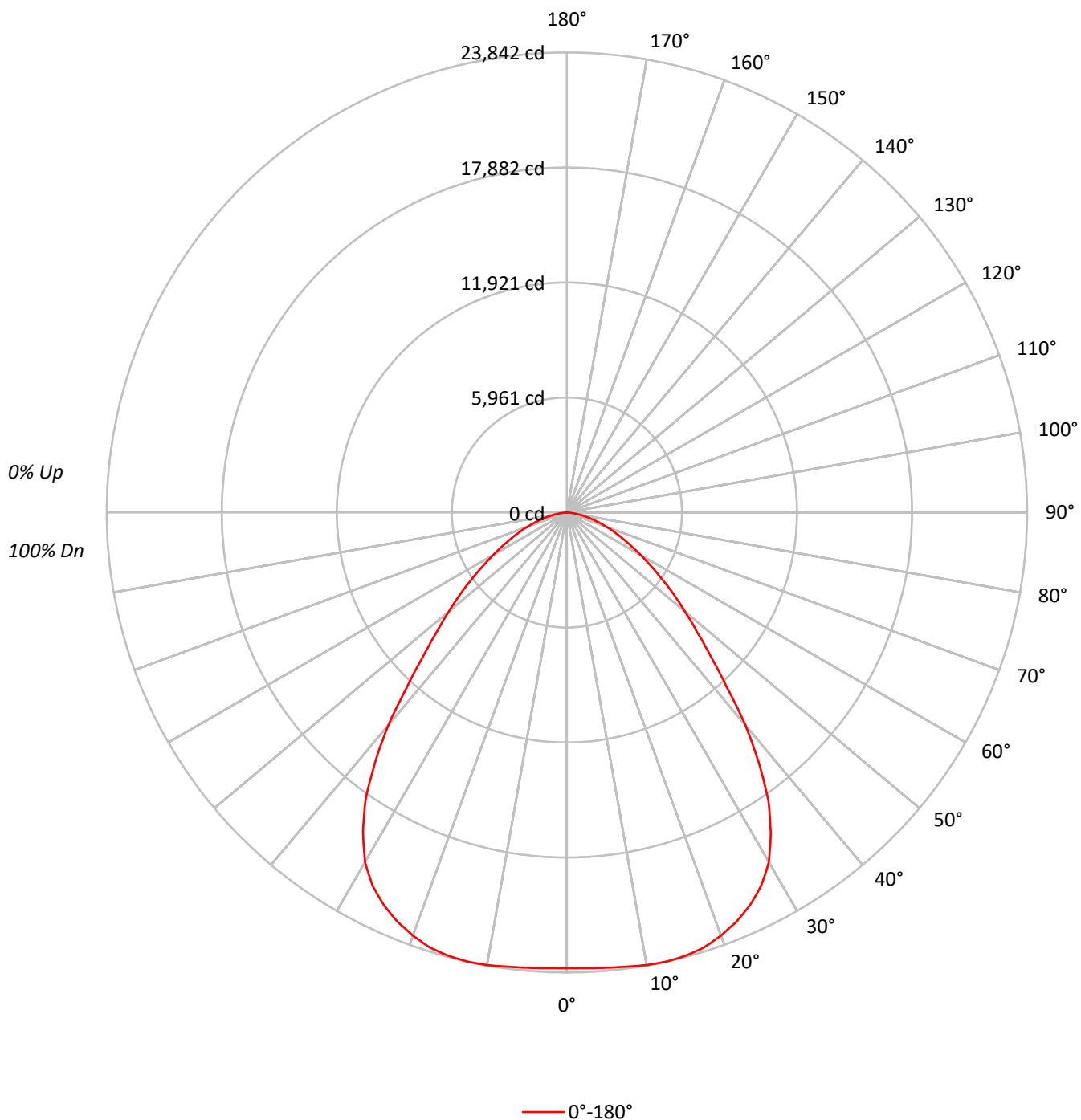
Lumens per Lamp: N/A
Luminaire Lumens: 49152.8 lumens
Efficiency: N/A
Efficacy: 159.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 308.9
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°	116538
5°	117302
10°	119337
15°	121471
20°	122499
25°	122198
30°	119185
35°	109551
40°	92688
45°	73344
50°	61288
55°	51629
60°	43652
65°	37178
70°	31657
75°	26177
80°	19386
85°	12092

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 73344 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2265.1	4.6
10°-20°	6713.8	13.7
20°-30°	10304.5	21.0
30°-40°	11200.7	22.8
40°-50°	8269.4	16.8
50°-60°	5427.0	11.0
60°-70°	3195.4	6.5
70°-80°	1465.1	3.0
80°-90°	286.2	0.6
90°-100°	0.9	0.0
100°-110°	0.8	0.0
110°-120°	0.9	0.0
120°-130°	1.9	0.0
130°-140°	3.9	0.0
140°-150°	5.4	0.0
150°-160°	5.5	0.0
160°-170°	4.5	0.0
170°-180°	1.7	0.0
0°-30°	19283.4	39.2
0°-40°	30484.1	62.0
0°-60°	44180.6	89.9
0°-90°	49127.2	99.9
90°-120°	2.6	0.0
90°-150°	13.8	0.0
90°-180°	26.0	0.1
0°-180°	49152.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23620	
5°	23685	###
15°	23781	6714
25°	22447	10305
35°	18188	11201
45°	10512	8269
55°	6002	5427
65°	3185	3195
75°	1373	1465
85°	214	278
90°	2	9
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	5	4
145°	8	5
155°	12	5
165°	16	5
175°	19	2
180°	20	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	23620.2
2.5°	23641.3
5°	23684.6
7.5°	23744.8
10°	23820.2
12.5°	23842.2
15°	23781.2
17.5°	23632.9
20°	23331.1
22.5°	22949.7
25°	22447.0
27.5°	21803.7
30°	20920.4
32.5°	19660.0
35°	18188.5
37.5°	16328.0
40°	14391.1
42.5°	12239.0
45°	10511.5
47.5°	9119.7
50°	7984.7
52.5°	6967.5
55°	6002.1
57.5°	5159.5
60°	4423.8
62.5°	3769.4
65°	3184.6
67.5°	2670.0
70°	2194.5
72.5°	1768.2
75°	1373.2
77.5°	982.4
80°	682.3
82.5°	439.1
85°	213.6
87.5°	57.6
90°	2.5
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°	1.7
122.5°	1.7
125°	1.7
127.5°	2.5
130°	3.4
132.5°	4.2
135°	5.1
137.5°	5.9
140°	6.8
142.5°	7.6
145°	8.5
147.5°	10.2
150°	10.2
152.5°	11.0
155°	11.9
157.5°	12.7
160°	14.4
162.5°	15.3
165°	16.1
167.5°	17.0
170°	17.8
172.5°	17.8
175°	18.6
177.5°	19.5
180°	19.5

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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	24.26	25.67	24.63	25.98	26.30	24.26	25.67	24.63	25.98	26.30
	3H	25.40	26.66	25.78	26.99	27.35	25.40	26.66	25.78	26.99	27.35
	4H	25.77	26.94	26.17	27.29	27.67	25.77	26.94	26.17	27.29	27.67
	6H	25.95	27.03	26.37	27.40	27.80	25.95	27.03	26.37	27.40	27.80
	8H	25.99	27.01	26.42	27.41	27.81	25.99	27.01	26.42	27.41	27.81
	12H	25.99	26.97	26.43	27.36	27.79	25.99	26.97	26.43	27.36	27.79
4H	2H	24.65	25.82	25.05	26.17	26.55	24.65	25.82	25.05	26.17	26.55
	3H	25.99	26.95	26.40	27.35	27.76	25.99	26.95	26.40	27.35	27.76
	4H	26.44	27.31	26.88	27.73	28.17	26.44	27.31	26.88	27.73	28.17
	6H	26.71	27.46	27.17	27.91	28.37	26.71	27.46	27.17	27.91	28.37
	8H	26.77	27.47	27.24	27.91	28.38	26.77	27.47	27.24	27.91	28.38
	12H	26.79	27.41	27.27	27.89	28.36	26.79	27.41	27.27	27.89	28.36
8H	4H	26.57	27.27	27.04	27.72	28.19	26.57	27.27	27.04	27.72	28.19
	6H	26.90	27.48	27.41	27.97	28.45	26.90	27.48	27.41	27.97	28.45
	8H	27.00	27.51	27.51	28.02	28.51	27.00	27.51	27.51	28.02	28.51
	12H	27.05	27.50	27.56	27.99	28.56	27.05	27.50	27.56	27.99	28.56
12H	4H	26.56	27.18	27.05	27.66	28.14	26.56	27.18	27.05	27.66	28.14
	6H	26.90	27.41	27.42	27.92	28.42	26.90	27.41	27.42	27.92	28.42
	8H	27.02	27.47	27.54	27.97	28.54	27.02	27.47	27.54	27.97	28.54