

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: P1036852

Luminaire Tested: UHBS2-4860-L8C5-LOW-N-3500K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036852
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-LOW-N-3500K
Description: UHBS Selectable High Bay at LOW lumen, 3500K CCT settings with Narrow beam
Light Source: -
Ballast/Driver: -

Summary

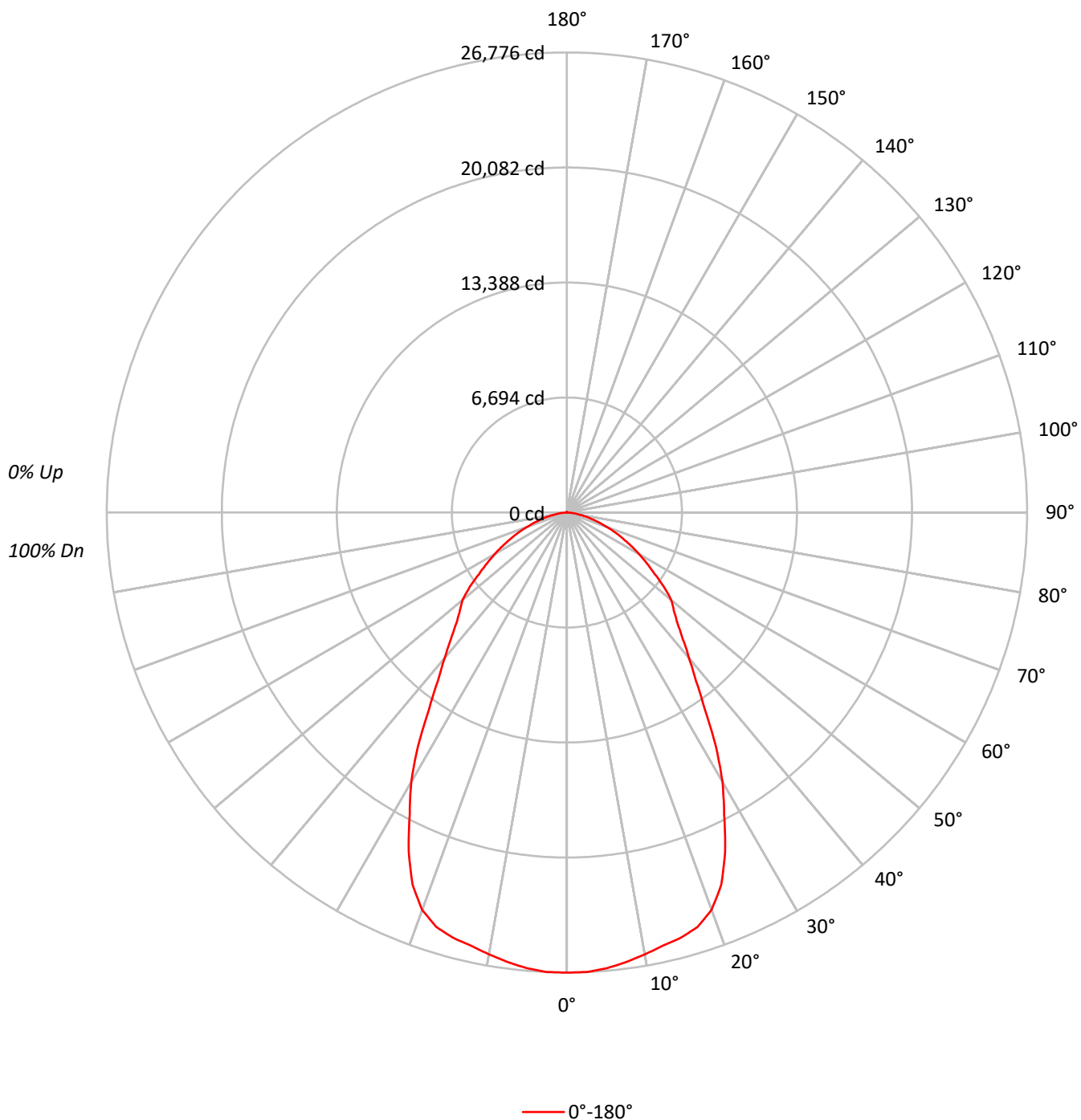
Lumens per Lamp: N/A
Luminaire Lumens: 46917.9 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 312.7
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	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°	132110
5°	131861
10°	130825
15°	130886
20°	129226
25°	118608
30°	103127
35°	84200
40°	71188
45°	63325
50°	60826
55°	53676
60°	47948
65°	42140
70°	35882
75°	29336
80°	23003
85°	16383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 63325 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2524.9	5.4
10°-20°	7215.7	15.4
20°-30°	9906.7	21.1
30°-40°	8863.9	18.9
40°-50°	7128.0	15.2
50°-60°	5642.5	12.0
60°-70°	3593.5	7.7
70°-80°	1660.9	3.5
80°-90°	359.0	0.8
90°-100°	0.2	0.0
100°-110°	0.5	0.0
110°-120°	0.8	0.0
120°-130°	1.5	0.0
130°-140°	3.2	0.0
140°-150°	4.9	0.0
150°-160°	5.4	0.0
160°-170°	4.6	0.0
170°-180°	1.8	0.0
0°-30°	19647.3	41.9
0°-40°	28511.2	60.8
0°-60°	41281.7	88.0
0°-90°	46895.1	100.0
90°-120°	1.6	0.0
90°-150°	11.2	0.0
90°-180°	23.0	0.0
0°-180°	46917.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	26776	
5°	26624	###
15°	25624	7216
25°	21788	9907
35°	13980	8864
45°	9076	7128
55°	6240	5643
65°	3610	3594
75°	1539	1661
85°	289	348
90°	2	11
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	4	3
145°	8	5
155°	12	5
165°	16	5
175°	20	2
180°	21	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	26776.4
2.5°	26771.5
5°	26624.3
7.5°	26396.8
10°	26113.2
12.5°	25816.3
15°	25624.5
17.5°	25287.1
20°	24612.3
22.5°	23455.4
25°	21787.5
27.5°	19810.2
30°	18101.8
32.5°	16128.7
35°	13979.5
37.5°	12322.3
40°	11052.9
42.5°	9985.3
45°	9075.7
47.5°	8436.5
50°	7924.6
52.5°	7124.9
55°	6240.1
57.5°	5519.8
60°	4859.1
62.5°	4209.1
65°	3609.6
67.5°	3048.9
70°	2487.4
72.5°	1992.9
75°	1538.9
77.5°	1124.6
80°	809.6
82.5°	546.6
85°	289.4
87.5°	78.6
90°	1.7
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
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°	0.8
122.5°	1.7
125°	1.7
127.5°	1.7
130°	2.5
132.5°	3.3
135°	4.1
137.5°	5.0
140°	5.8
142.5°	6.6
145°	8.3
147.5°	9.1
150°	9.9
152.5°	10.8
155°	11.6
157.5°	13.2
160°	14.1
162.5°	15.7
165°	16.5
167.5°	17.4
170°	18.2
172.5°	19.0
175°	19.8
177.5°	19.8
180°	20.7

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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	24.87	26.30	25.24	26.62	26.93	24.87	26.30	25.24	26.62	26.93
	3H	26.15	27.43	26.53	27.76	28.13	26.15	27.43	26.53	27.76	28.13
	4H	26.54	27.74	26.94	28.09	28.47	26.54	27.74	26.94	28.09	28.47
	6H	26.76	27.86	27.17	28.23	28.62	26.76	27.86	27.17	28.23	28.62
	8H	26.81	27.86	27.24	28.25	28.65	26.81	27.86	27.24	28.25	28.65
	12H	26.83	27.83	27.26	28.22	28.65	26.83	27.83	27.26	28.22	28.65
4H	2H	25.32	26.52	25.73	26.87	27.25	25.32	26.52	25.73	26.87	27.25
	3H	26.79	27.78	27.20	28.18	28.58	26.79	27.78	27.20	28.18	28.58
	4H	27.27	28.15	27.70	28.57	29.01	27.27	28.15	27.70	28.57	29.01
	6H	27.57	28.34	28.03	28.78	29.25	27.57	28.34	28.03	28.78	29.25
	8H	27.65	28.37	28.12	28.81	29.29	27.65	28.37	28.12	28.81	29.29
	12H	27.69	28.33	28.18	28.81	29.29	27.69	28.33	28.18	28.81	29.29
8H	4H	27.41	28.13	27.88	28.58	29.05	27.41	28.13	27.88	28.58	29.05
	6H	27.79	28.38	28.29	28.88	29.36	27.79	28.38	28.29	28.88	29.36
	8H	27.92	28.44	28.44	28.96	29.45	27.92	28.44	28.44	28.96	29.45
	12H	28.00	28.47	28.51	28.96	29.53	28.00	28.47	28.51	28.96	29.53
12H	4H	27.41	28.04	27.89	28.52	29.00	27.41	28.04	27.89	28.52	29.00
	6H	27.79	28.32	28.31	28.84	29.33	27.79	28.32	28.31	28.84	29.33
	8H	27.96	28.42	28.47	28.92	29.49	27.96	28.42	28.47	28.92	29.49