

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: P1036840

Luminaire Tested: UHBS2-4860-L8C5-HI-N-6500K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036840
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-HI-N-6500K
Description: UHBS Selectable High Bay at HI lumen, 6500K CCT settings with Narrow beam
Light Source: -
Ballast/Driver: -

Summary

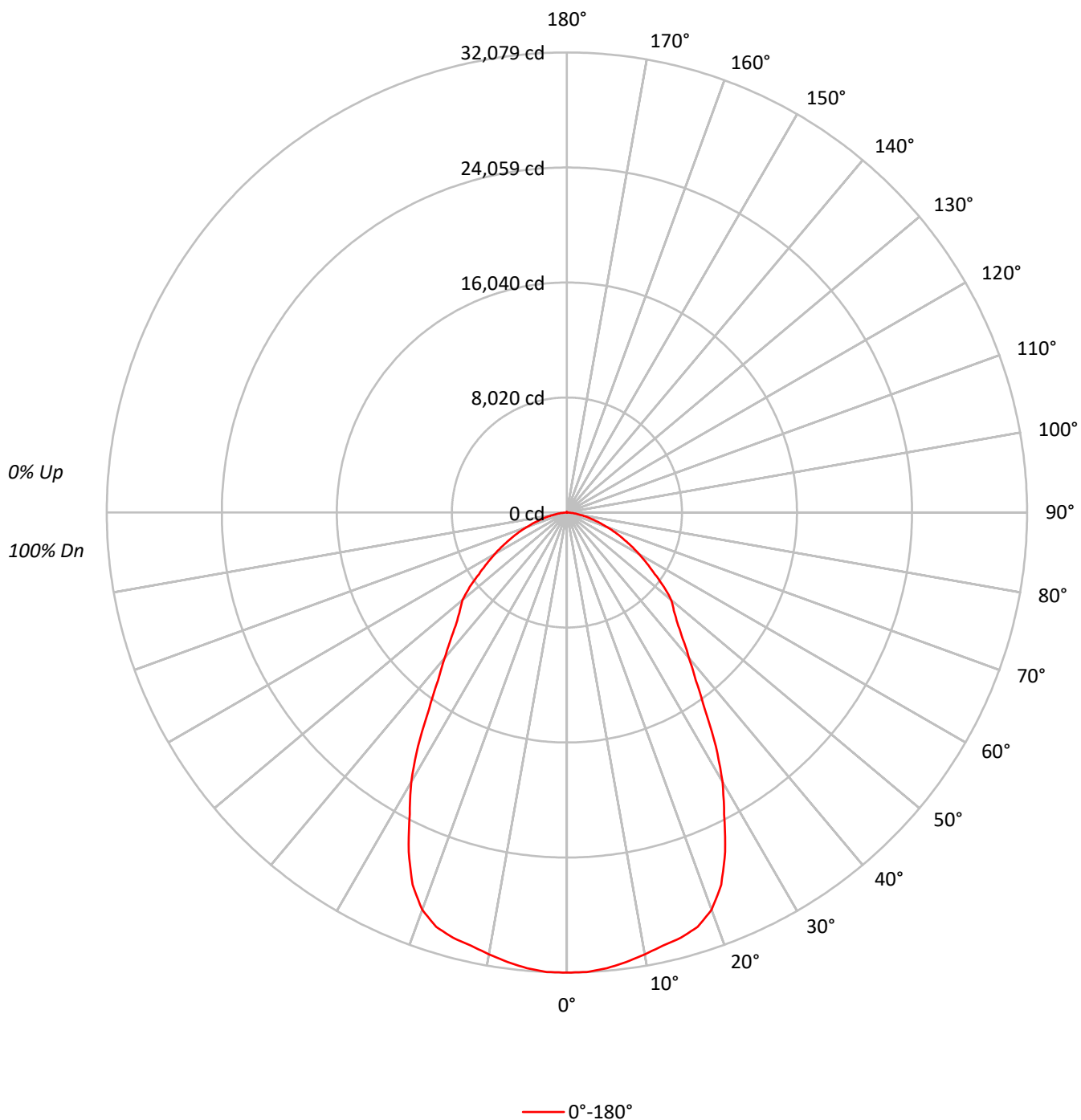
Lumens per Lamp: N/A
Luminaire Lumens: 56209.1 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 386.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9981
Total Harmonic Distortion (THDi): 3.1344
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1036840

CATALOG NUMBER: UHBS2-4860-L8C5-HI-N-6500K

Luminous Intensity Polar Plot



TEST NUMBER: P1036840

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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°	158271
5°	157973
10°	156732
15°	156805
20°	154816
25°	142096
30°	123549
35°	100873
40°	85285
45°	75865
50°	72872
55°	64306
60°	57442
65°	50485
70°	42988
75°	35146
80°	27557
85°	19626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 75865 cd/sqm

TEST NUMBER: P1036840

CATALOG NUMBER: UHBS2-4860-L8C5-HI-N-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3024.8	5.4
10°-20°	8644.6	15.4
20°-30°	11868.5	21.1
30°-40°	10619.2	18.9
40°-50°	8539.5	15.2
50°-60°	6759.9	12.0
60°-70°	4305.2	7.7
70°-80°	1989.9	3.5
80°-90°	430.0	0.8
90°-100°	0.3	0.0
100°-110°	0.7	0.0
110°-120°	1.0	0.0
120°-130°	1.8	0.0
130°-140°	3.8	0.0
140°-150°	5.9	0.0
150°-160°	6.5	0.0
160°-170°	5.5	0.0
170°-180°	2.2	0.0
0°-30°	23538.0	41.9
0°-40°	34157.2	60.8
0°-60°	49456.6	88.0
0°-90°	56181.7	100.0
90°-120°	1.9	0.0
90°-150°	13.4	0.0
90°-180°	28.0	0.0
0°-180°	56209.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	32079	
5°	31897	###
15°	30699	8645
25°	26102	11869
35°	16748	10619
45°	10873	8539
55°	7476	6760
65°	4324	4305
75°	1844	1990
85°	347	417
90°	2	13
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	5	4
145°	10	6
155°	14	7
165°	20	6
175°	24	2
180°	25	

TEST NUMBER: P1036840

CATALOG NUMBER: UHBS2-4860-L8C5-HI-N-6500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	32078.8
2.5°	32072.9
5°	31896.6
7.5°	31624.1
10°	31284.3
12.5°	30928.6
15°	30698.8
17.5°	30294.6
20°	29486.2
22.5°	28100.2
25°	26102.0
27.5°	23733.2
30°	21686.4
32.5°	19322.6
35°	16747.8
37.5°	14762.4
40°	13241.7
42.5°	11962.7
45°	10872.9
47.5°	10107.1
50°	9493.9
52.5°	8535.9
55°	7475.8
57.5°	6612.9
60°	5821.3
62.5°	5042.7
65°	4324.4
67.5°	3652.7
70°	2980.0
72.5°	2387.6
75°	1843.7
77.5°	1347.4
80°	969.9
82.5°	654.9
85°	346.7
87.5°	94.1
90°	2.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	1.0
110°	1.0



TEST NUMBER: P1036840

CATALOG NUMBER: UHBS2-4860-L8C5-HI-N-6500K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.0
115°	1.0
117.5°	1.0
120°	1.0
122.5°	2.0
125°	2.0
127.5°	2.0
130°	3.0
132.5°	4.0
135°	5.0
137.5°	5.9
140°	6.9
142.5°	7.9
145°	9.9
147.5°	10.9
150°	11.9
152.5°	12.9
155°	13.9
157.5°	15.9
160°	16.8
162.5°	18.8
165°	19.8
167.5°	20.8
170°	21.8
172.5°	22.8
175°	23.8
177.5°	23.8
180°	24.8

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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	25.50	26.93	25.87	27.25	27.56	25.50	26.93	25.87	27.25	27.56
	3H	26.78	28.06	27.16	28.39	28.75	26.78	28.06	27.16	28.39	28.75
	4H	27.17	28.36	27.57	28.71	29.10	27.17	28.36	27.57	28.71	29.10
	6H	27.38	28.49	27.80	28.86	29.25	27.38	28.49	27.80	28.86	29.25
	8H	27.44	28.49	27.87	28.88	29.28	27.44	28.49	27.87	28.88	29.28
	12H	27.46	28.46	27.89	28.84	29.27	27.46	28.46	27.89	28.84	29.27
4H	2H	25.95	27.15	26.35	27.50	27.88	25.95	27.15	26.35	27.50	27.88
	3H	27.42	28.40	27.83	28.81	29.21	27.42	28.40	27.83	28.81	29.21
	4H	27.89	28.78	28.33	29.20	29.64	27.89	28.78	28.33	29.20	29.64
	6H	28.20	28.97	28.66	29.41	29.88	28.20	28.97	28.66	29.41	29.88
	8H	28.28	29.00	28.75	29.44	29.91	28.28	29.00	28.75	29.44	29.91
	12H	28.32	28.96	28.81	29.44	29.91	28.32	28.96	28.81	29.44	29.91
8H	4H	28.04	28.76	28.51	29.20	29.67	28.04	28.76	28.51	29.20	29.67
	6H	28.42	29.01	28.92	29.50	29.98	28.42	29.01	28.92	29.50	29.98
	8H	28.55	29.07	29.06	29.59	30.08	28.55	29.07	29.06	29.59	30.08
	12H	28.63	29.09	29.14	29.59	30.16	28.63	29.09	29.14	29.59	30.16
12H	4H	28.03	28.67	28.52	29.15	29.63	28.03	28.67	28.52	29.15	29.63
	6H	28.42	28.95	28.94	29.46	29.95	28.42	28.95	28.94	29.46	29.95
	8H	28.59	29.05	29.10	29.55	30.12	28.59	29.05	29.10	29.55	30.12