

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: P1036851

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036851
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-3000K
Description: UHBS Selectable High Bay at LOW lumen, 3000K CCT settings with Narrow beam
Light Source: -
Ballast/Driver: -

Summary

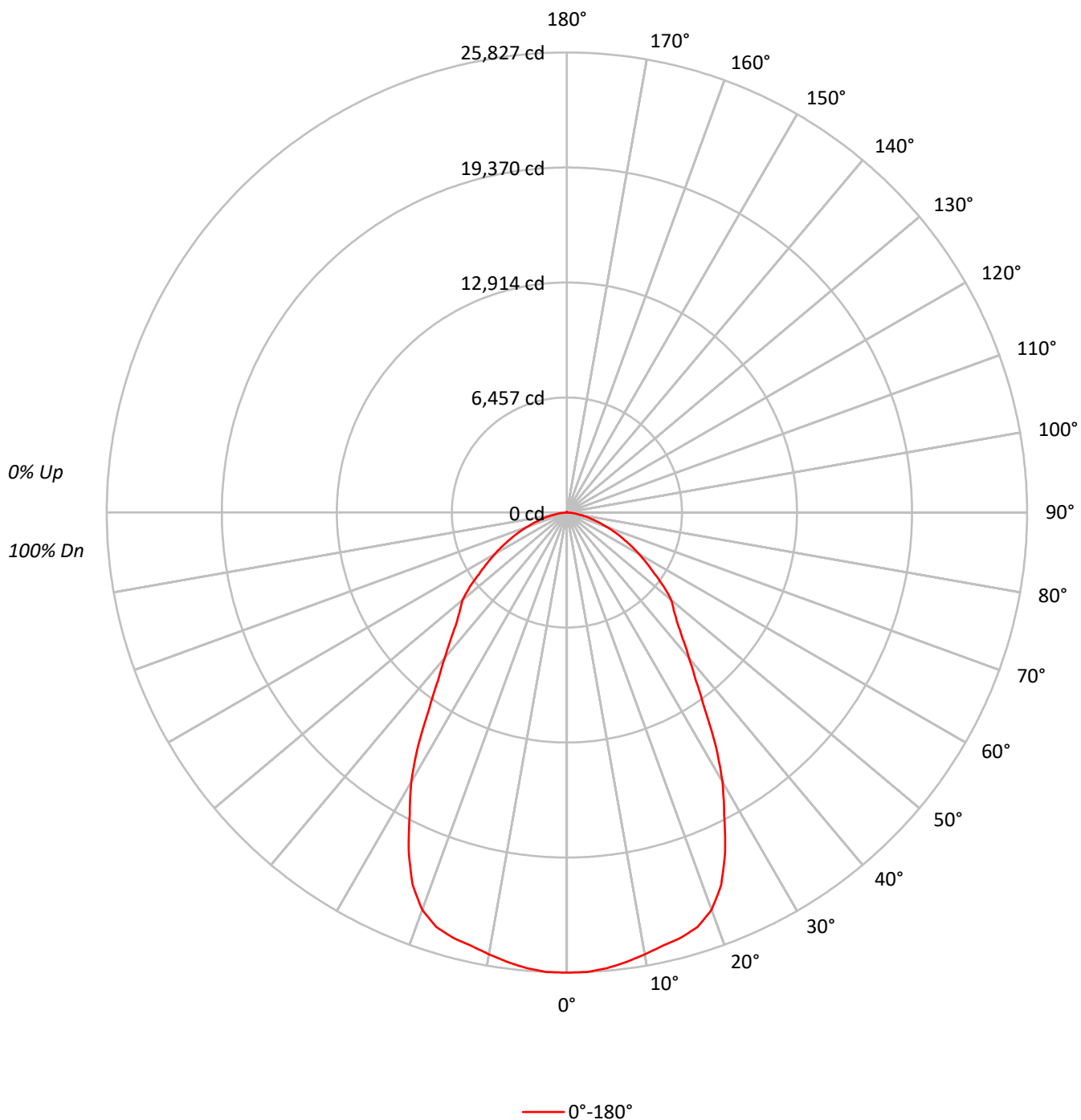
Lumens per Lamp: N/A
Luminaire Lumens: 45254.1 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	127425
5°	127184
10°	126185
15°	126244
20°	124643
25°	114401
30°	99470
35°	81213
40°	68663
45°	61079
50°	58669
55°	51773
60°	46248
65°	40646
70°	34610
75°	28297
80°	22187
85°	15805

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 61079 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2435.3	5.4
10°-20°	6959.8	15.4
20°-30°	9555.4	21.1
30°-40°	8549.6	18.9
40°-50°	6875.2	15.2
50°-60°	5442.4	12.0
60°-70°	3466.1	7.7
70°-80°	1602.1	3.5
80°-90°	346.2	0.8
90°-100°	0.2	0.0
100°-110°	0.5	0.0
110°-120°	0.8	0.0
120°-130°	1.4	0.0
130°-140°	3.1	0.0
140°-150°	4.8	0.0
150°-160°	5.3	0.0
160°-170°	4.4	0.0
170°-180°	1.8	0.0
0°-30°	18950.5	41.9
0°-40°	27500.1	60.8
0°-60°	39817.6	88.0
0°-90°	45232.1	100.0
90°-120°	1.5	0.0
90°-150°	10.8	0.0
90°-180°	22.0	0.0
0°-180°	45254.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	25827	
5°	25680	###
15°	24716	6960
25°	21015	9555
35°	13484	8550
45°	8754	6875
55°	6019	5442
65°	3482	3466
75°	1484	1602
85°	279	336
90°	2	11
95°	0	0
105°	0	1
115°	1	1
125°	2	1
135°	4	3
145°	8	5
155°	11	5
165°	16	4
175°	19	2
180°	20	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	25826.8
2.5°	25822.0
5°	25680.0
7.5°	25460.7
10°	25187.1
12.5°	24900.7
15°	24715.7
17.5°	24390.3
20°	23739.4
22.5°	22623.5
25°	21014.7
27.5°	19107.7
30°	17459.8
32.5°	15556.7
35°	13483.7
37.5°	11885.3
40°	10660.9
42.5°	9631.2
45°	8753.8
47.5°	8137.3
50°	7643.5
52.5°	6872.2
55°	6018.8
57.5°	5324.1
60°	4686.8
62.5°	4059.9
65°	3481.6
67.5°	2940.8
70°	2399.2
72.5°	1922.3
75°	1484.4
77.5°	1084.8
80°	780.9
82.5°	527.2
85°	279.2
87.5°	75.8
90°	1.6
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°	1.6
125°	1.6
127.5°	1.6
130°	2.4
132.5°	3.2
135°	4.0
137.5°	4.8
140°	5.6
142.5°	6.4
145°	8.0
147.5°	8.8
150°	9.6
152.5°	10.4
155°	11.2
157.5°	12.8
160°	13.6
162.5°	15.2
165°	16.0
167.5°	16.7
170°	17.5
172.5°	18.3
175°	19.1
177.5°	19.1
180°	19.9

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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	24.75	26.18	25.11	26.49	26.81	24.75	26.18	25.11	26.49	26.81
	3H	26.03	27.31	26.41	27.64	28.00	26.03	27.31	26.41	27.64	28.00
	4H	26.41	27.61	26.82	27.96	28.34	26.41	27.61	26.82	27.96	28.34
	6H	26.63	27.73	27.04	28.10	28.50	26.63	27.73	27.04	28.10	28.50
	8H	26.69	27.73	27.11	28.12	28.53	26.69	27.73	27.11	28.12	28.53
	12H	26.70	27.71	27.14	28.09	28.52	26.70	27.71	27.14	28.09	28.52
4H	2H	25.20	26.40	25.60	26.75	27.13	25.20	26.40	25.60	26.75	27.13
	3H	26.66	27.65	27.07	28.05	28.46	26.66	27.65	27.07	28.05	28.46
	4H	27.14	28.03	27.57	28.45	28.89	27.14	28.03	27.57	28.45	28.89
	6H	27.45	28.21	27.91	28.66	29.12	27.45	28.21	27.91	28.66	29.12
	8H	27.53	28.24	27.99	28.69	29.16	27.53	28.24	27.99	28.69	29.16
	12H	27.57	28.21	28.05	28.69	29.16	27.57	28.21	28.05	28.69	29.16
8H	4H	27.29	28.00	27.75	28.45	28.92	27.29	28.00	27.75	28.45	28.92
	6H	27.67	28.26	28.17	28.75	29.23	27.67	28.26	28.17	28.75	29.23
	8H	27.79	28.32	28.31	28.83	29.32	27.79	28.32	28.31	28.83	29.32
	12H	27.88	28.34	28.39	28.83	29.40	27.88	28.34	28.39	28.83	29.40
12H	4H	27.28	27.92	27.77	28.40	28.87	27.28	27.92	27.77	28.40	28.87
	6H	27.67	28.20	28.19	28.71	29.20	27.67	28.20	28.19	28.71	29.20
	8H	27.84	28.30	28.35	28.79	29.36	27.84	28.30	28.35	28.79	29.36