

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: P1036844

Luminaire Tested: UHBS2-4860-L8C5-HI-W-5000K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-430-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/30/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-4860-L8C5-HI-W-5000K
Description: UHBS Selectable High Bay at HI lumen, 5000K CCT settings with Wide beam
Light Source: -
Ballast/Driver: -

Summary

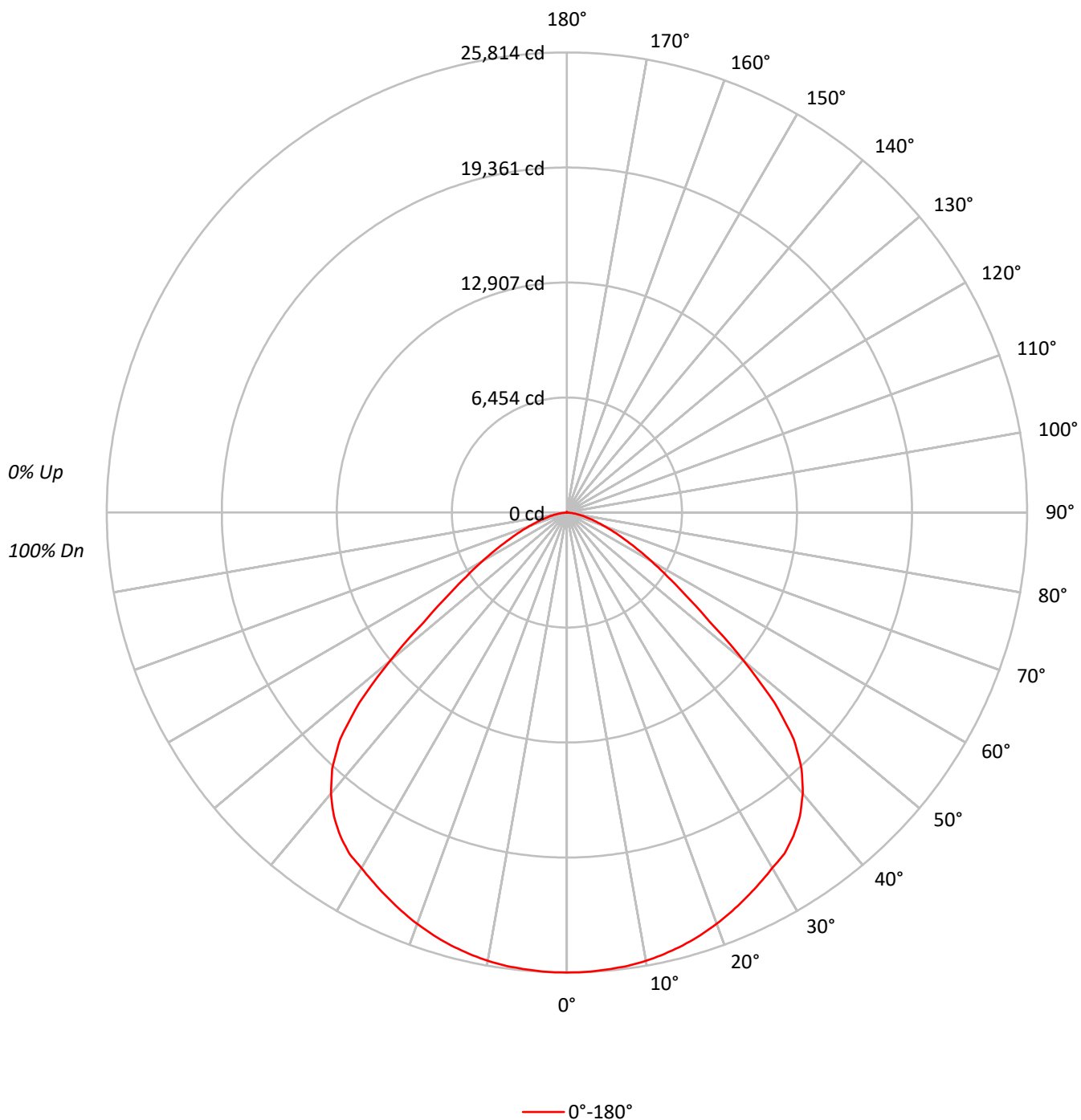
Lumens per Lamp: N/A
Luminaire Lumens: 60805.0 lumens
Efficiency: N/A
Efficacy: 160.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.41
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 379.2
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

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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	105	102	99	101	98	96		97	95	93		93
2	102	95	90	85	100	94	88	84	90	86	82		87	83	80		84
3	94	85	78	73	92	84	77	72	81	75	71		78	74	70		76
4	87	77	69	63	85	75	68	63	73	67	62		71	65	61		69
5	81	69	61	55	79	68	60	55	66	59	54		64	58	54		62
6	75	63	55	49	73	62	54	48	60	53	48		58	52	48		57
7	70	57	49	43	68	56	49	43	55	48	43		53	47	43		52
8	65	52	44	39	63	52	44	39	50	43	39		49	43	38		48
9	61	48	40	35	59	47	40	35	46	40	35		45	39	35		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	127361
5°	127508
10°	128000
15°	128427
20°	128978
25°	129742
30°	131270
35°	133481
40°	132584
45°	125532
50°	99341
55°	70291
60°	54105
65°	41743
70°	32312
75°	24961
80°	18258
85°	8695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 125532 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2451.7	4.0
10°-20°	7103.8	11.7
20°-30°	11005.5	18.1
30°-40°	13814.7	22.7
40°-50°	13478.7	22.2
50°-60°	7611.1	12.5
60°-70°	3636.8	6.0
70°-80°	1430.8	2.4
80°-90°	243.4	0.4
90°-100°	0.8	0.0
100°-110°	1.1	0.0
110°-120°	1.4	0.0
120°-130°	2.5	0.0
130°-140°	4.7	0.0
140°-150°	6.2	0.0
150°-160°	5.7	0.0
160°-170°	4.5	0.0
170°-180°	1.8	0.0
0°-30°	20561.0	33.8
0°-40°	34375.7	56.5
0°-60°	55465.4	91.2
0°-90°	60776.3	100.0
90°-120°	3.2	0.0
90°-150°	16.6	0.0
90°-180°	29.0	0.0
0°-180°	60805.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	25814	
5°	25745	###
15°	25143	7104
25°	23833	11005
35°	22162	13815
45°	17991	13479
55°	8172	7611
65°	3576	3637
75°	1309	1431
85°	154	237
90°	3	7
95°	0	0
105°	1	1
115°	1	1
125°	3	2
135°	6	5
145°	10	6
155°	12	6
165°	16	5
175°	19	2
180°	20	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	25814.0
2.5°	25800.8
5°	25745.3
7.5°	25671.5
10°	25549.3
12.5°	25363.4
15°	25143.1
17.5°	24877.4
20°	24565.2
22.5°	24208.6
25°	23832.7
27.5°	23441.7
30°	23041.6
32.5°	22704.2
35°	22161.6
37.5°	21475.6
40°	20585.5
42.5°	19484.2
45°	17991.0
47.5°	15788.5
50°	12942.3
52.5°	10137.7
55°	8171.6
57.5°	6689.4
60°	5483.1
62.5°	4452.5
65°	3575.6
67.5°	2848.1
70°	2239.9
72.5°	1733.7
75°	1309.4
77.5°	948.7
80°	642.6
82.5°	376.9
85°	153.6
87.5°	42.4
90°	3.0
92.5°	0.0
95°	0.0
97.5°	1.0
100°	1.0
102.5°	1.0
105°	1.0
107.5°	1.0
110°	1.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.0
115°	1.0
117.5°	2.0
120°	2.0
122.5°	2.0
125°	3.0
127.5°	3.0
130°	4.0
132.5°	5.1
135°	6.1
137.5°	7.1
140°	8.1
142.5°	9.1
145°	10.1
147.5°	11.1
150°	11.1
152.5°	12.1
155°	12.1
157.5°	13.1
160°	14.1
162.5°	15.2
165°	16.2
167.5°	17.2
170°	18.2
172.5°	18.2
175°	19.2
177.5°	19.2
180°	20.2

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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	25.23	26.70	25.60	27.01	27.33	25.23	26.70	25.60	27.01	27.33
	3H	26.00	27.31	26.38	27.63	28.00	26.00	27.31	26.38	27.63	28.00
	4H	26.21	27.43	26.62	27.78	28.16	26.21	27.43	26.62	27.78	28.16
	6H	26.32	27.43	26.73	27.80	28.20	26.32	27.43	26.73	27.80	28.20
	8H	26.32	27.38	26.75	27.77	28.18	26.32	27.38	26.75	27.77	28.18
	12H	26.30	27.32	26.74	27.70	28.13	26.30	27.32	26.74	27.70	28.13
4H	2H	25.51	26.72	25.91	27.07	27.45	25.51	26.72	25.91	27.07	27.45
	3H	26.44	27.43	26.85	27.84	28.24	26.44	27.43	26.85	27.84	28.24
	4H	26.72	27.61	27.16	28.03	28.47	26.72	27.61	27.16	28.03	28.47
	6H	26.89	27.66	27.35	28.10	28.56	26.89	27.66	27.35	28.10	28.56
	8H	26.90	27.62	27.37	28.07	28.54	26.90	27.62	27.37	28.07	28.54
	12H	26.89	27.53	27.38	28.01	28.49	26.89	27.53	27.38	28.01	28.49
8H	4H	26.78	27.50	27.25	27.94	28.41	26.78	27.50	27.25	27.94	28.41
	6H	26.99	27.58	27.49	28.07	28.55	26.99	27.58	27.49	28.07	28.55
	8H	27.02	27.55	27.54	28.06	28.55	27.02	27.55	27.54	28.06	28.55
	12H	27.02	27.50	27.54	27.99	28.56	27.02	27.50	27.54	27.99	28.56
12H	4H	26.76	27.40	27.25	27.88	28.35	26.76	27.40	27.25	27.88	28.35
	6H	26.96	27.49	27.48	28.00	28.50	26.96	27.49	27.48	28.00	28.50
	8H	27.02	27.49	27.53	27.99	28.56	27.02	27.49	27.53	27.99	28.56