

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: P1036836

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036836
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-3000K
Description: UHBS Selectable High Bay at HI lumen, 3000K CCT settings with Narrow beam
Light Source: -
Ballast/Driver: -

Summary

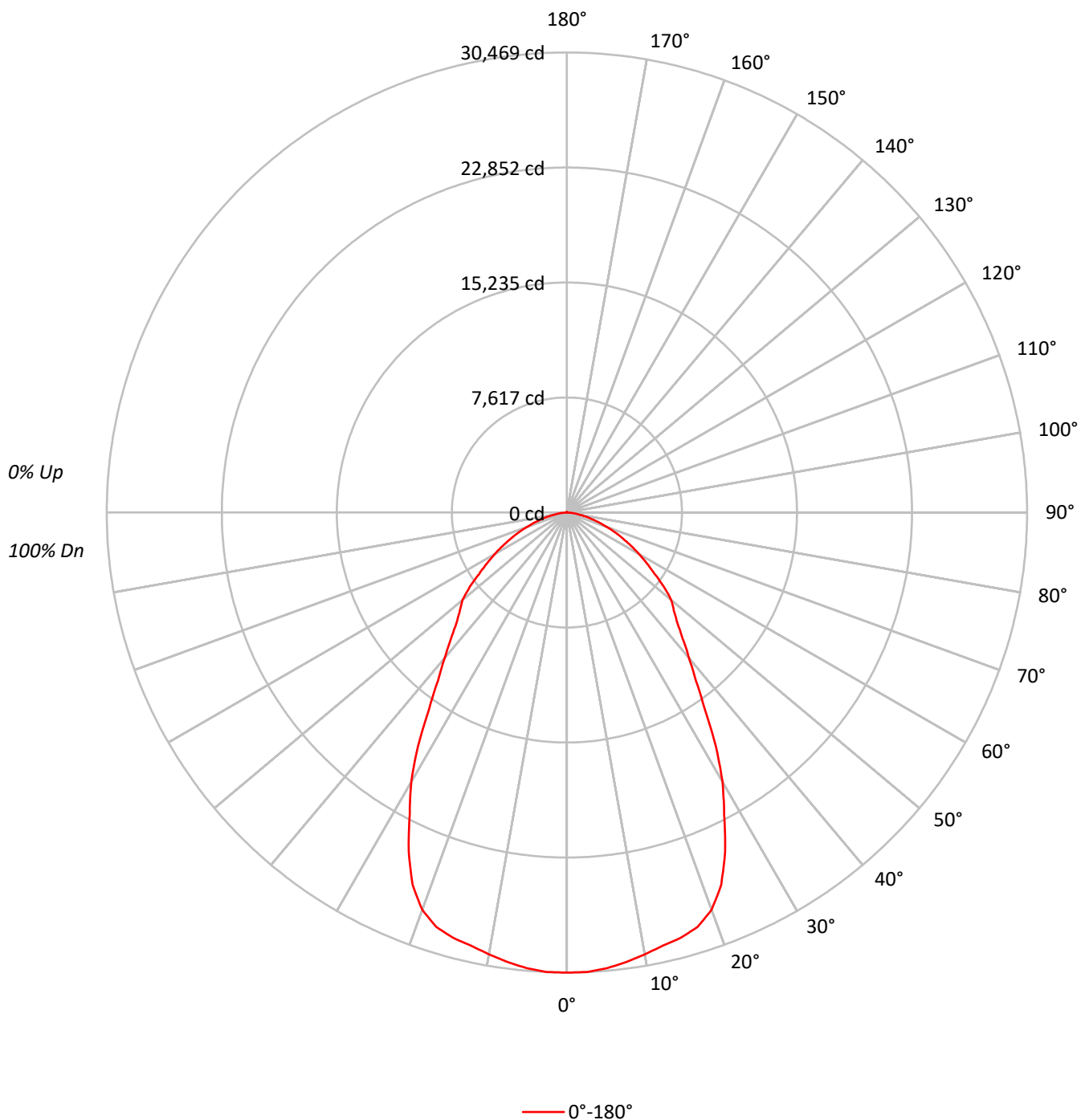
Lumens per Lamp: N/A
Luminaire Lumens: 53388.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 387.9
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	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°	150328
5°	150044
10°	148866
15°	148935
20°	147046
25°	134964
30°	117348
35°	95810
40°	81005
45°	72058
50°	69214
55°	61078
60°	54560
65°	47951
70°	40831
75°	33383
80°	26174
85°	18641

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 72058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2873.0	5.4
10°-20°	8210.8	15.4
20°-30°	11272.9	21.1
30°-40°	10086.2	18.9
40°-50°	8110.9	15.2
50°-60°	6420.6	12.0
60°-70°	4089.1	7.7
70°-80°	1890.0	3.5
80°-90°	408.5	0.8
90°-100°	0.3	0.0
100°-110°	0.6	0.0
110°-120°	0.9	0.0
120°-130°	1.7	0.0
130°-140°	3.6	0.0
140°-150°	5.6	0.0
150°-160°	6.2	0.0
160°-170°	5.2	0.0
170°-180°	2.1	0.0
0°-30°	22356.7	41.9
0°-40°	32442.9	60.8
0°-60°	46974.5	88.0
0°-90°	53362.0	100.0
90°-120°	1.7	0.0
90°-150°	12.7	0.0
90°-180°	26.0	0.0
0°-180°	53388.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	30469	
5°	30296	###
15°	29158	8211
25°	24792	11273
35°	15907	10086
45°	10327	8111
55°	7101	6421
65°	4107	4089
75°	1751	1890
85°	329	396
90°	2	13
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	5	4
145°	9	6
155°	13	6
165°	19	5
175°	23	2
180°	24	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	30468.9
2.5°	30463.2
5°	30295.7
7.5°	30037.0
10°	29714.2
12.5°	29376.4
15°	29158.1
17.5°	28774.2
20°	28006.3
22.5°	26689.9
25°	24792.0
27.5°	22542.1
30°	20598.0
32.5°	18352.8
35°	15907.2
37.5°	14021.5
40°	12577.1
42.5°	11362.3
45°	10327.2
47.5°	9599.9
50°	9017.4
52.5°	8107.5
55°	7100.6
57.5°	6281.0
60°	5529.2
62.5°	4789.6
65°	4107.4
67.5°	3469.4
70°	2830.5
72.5°	2267.8
75°	1751.2
77.5°	1279.7
80°	921.2
82.5°	622.0
85°	329.3
87.5°	89.4
90°	1.9
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.9
110°	0.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	0.9
120°	0.9
122.5°	1.9
125°	1.9
127.5°	1.9
130°	2.8
132.5°	3.8
135°	4.7
137.5°	5.6
140°	6.6
142.5°	7.5
145°	9.4
147.5°	10.4
150°	11.3
152.5°	12.2
155°	13.2
157.5°	15.1
160°	16.0
162.5°	17.9
165°	18.8
167.5°	19.8
170°	20.7
172.5°	21.6
175°	22.6
177.5°	22.6
180°	23.5

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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	25.32	26.75	25.69	27.07	27.38	25.32	26.75	25.69	27.07	27.38
	3H	26.60	27.88	26.98	28.21	28.58	26.60	27.88	26.98	28.21	28.58
	4H	26.99	28.19	27.39	28.54	28.92	26.99	28.19	27.39	28.54	28.92
	6H	27.20	28.31	27.62	28.68	29.07	27.20	28.31	27.62	28.68	29.07
	8H	27.26	28.31	27.69	28.70	29.10	27.26	28.31	27.69	28.70	29.10
	12H	27.28	28.28	27.71	28.66	29.10	27.28	28.28	27.71	28.66	29.10
4H	2H	25.77	26.97	26.18	27.32	27.70	25.77	26.97	26.18	27.32	27.70
	3H	27.24	28.22	27.65	28.63	29.03	27.24	28.22	27.65	28.63	29.03
	4H	27.71	28.60	28.15	29.02	29.46	27.71	28.60	28.15	29.02	29.46
	6H	28.02	28.79	28.48	29.23	29.70	28.02	28.79	28.48	29.23	29.70
	8H	28.10	28.82	28.57	29.26	29.73	28.10	28.82	28.57	29.26	29.73
	12H	28.14	28.78	28.63	29.26	29.73	28.14	28.78	28.63	29.26	29.73
8H	4H	27.86	28.58	28.33	29.03	29.50	27.86	28.58	28.33	29.03	29.50
	6H	28.24	28.83	28.74	29.32	29.80	28.24	28.83	28.74	29.32	29.80
	8H	28.37	28.89	28.88	29.41	29.90	28.37	28.89	28.88	29.41	29.90
	12H	28.45	28.91	28.96	29.41	29.98	28.45	28.91	28.96	29.41	29.98
12H	4H	27.85	28.49	28.34	28.97	29.45	27.85	28.49	28.34	28.97	29.45
	6H	28.24	28.77	28.76	29.28	29.78	28.24	28.77	28.76	29.28	29.78
	8H	28.41	28.87	28.92	29.37	29.94	28.41	28.87	28.92	29.37	29.94