

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: P1036843

Luminaire Tested: UHBS2-4860-L8C5-HI-W-4000K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036843
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-4000K
Description: UHBS Selectable High Bay at HI lumen, 4000K CCT settings with Wide beam
Light Source: -
Ballast/Driver: -

Summary

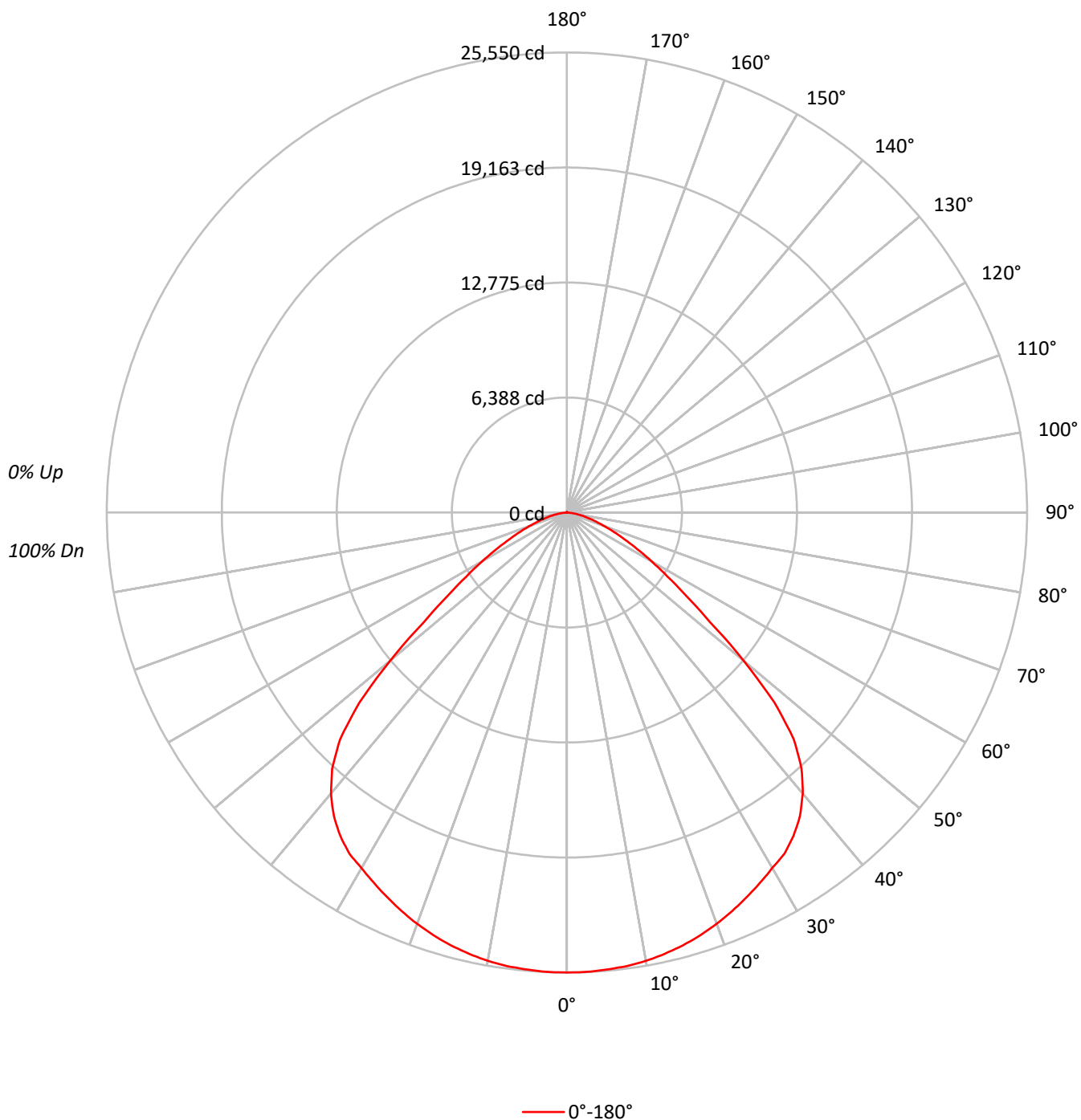
Lumens per Lamp: N/A
Luminaire Lumens: 60183.0 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.41
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 377.2
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°	126058
5°	126203
10°	126690
15°	127114
20°	127659
25°	128415
30°	129927
35°	132116
40°	131227
45°	124247
50°	98325
55°	69572
60°	53552
65°	41316
70°	31981
75°	24705
80°	18070
85°	8605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 124247 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2426.6	4.0
10°-20°	7031.1	11.7
20°-30°	10892.9	18.1
30°-40°	13673.4	22.7
40°-50°	13340.8	22.2
50°-60°	7533.2	12.5
60°-70°	3599.6	6.0
70°-80°	1416.1	2.4
80°-90°	240.9	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°	4.6	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°	20350.6	33.8
0°-40°	34024.0	56.5
0°-60°	54898.0	91.2
0°-90°	60154.6	100.0
90°-120°	3.2	0.0
90°-150°	16.4	0.0
90°-180°	28.0	0.0
0°-180°	60183.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	25550	
5°	25482	###
15°	24886	7031
25°	23589	10893
35°	21935	13673
45°	17807	13341
55°	8088	7533
65°	3539	3600
75°	1296	1416
85°	152	235
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	4
175°	19	2
180°	20	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	25549.9
2.5°	25536.9
5°	25481.9
7.5°	25408.9
10°	25287.9
12.5°	25103.9
15°	24885.9
17.5°	24622.9
20°	24313.9
22.5°	23960.9
25°	23588.9
27.5°	23201.9
30°	22805.9
32.5°	22471.9
35°	21934.9
37.5°	21255.9
40°	20374.9
42.5°	19284.9
45°	17806.9
47.5°	15626.9
50°	12810.0
52.5°	10034.0
55°	8088.0
57.5°	6621.0
60°	5427.0
62.5°	4407.0
65°	3539.0
67.5°	2819.0
70°	2217.0
72.5°	1716.0
75°	1296.0
77.5°	939.0
80°	636.0
82.5°	373.0
85°	152.0
87.5°	42.0
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°	5.0
135°	6.0
137.5°	7.0
140°	8.0
142.5°	9.0
145°	10.0
147.5°	11.0
150°	11.0
152.5°	12.0
155°	12.0
157.5°	13.0
160°	14.0
162.5°	15.0
165°	16.0
167.5°	17.0
170°	18.0
172.5°	18.0
175°	19.0
177.5°	19.0
180°	20.0

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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	25.20	26.66	25.56	26.98	27.29	25.20	26.66	25.56	26.98	27.29
	3H	25.97	27.27	26.35	27.60	27.96	25.97	27.27	26.35	27.60	27.96
	4H	26.18	27.39	26.58	27.74	28.12	26.18	27.39	26.58	27.74	28.12
	6H	26.28	27.40	26.69	27.77	28.16	26.28	27.40	26.69	27.77	28.16
	8H	26.29	27.35	26.71	27.74	28.14	26.29	27.35	26.71	27.74	28.14
	12H	26.27	27.28	26.70	27.67	28.10	26.27	27.28	26.70	27.67	28.10
4H	2H	25.47	26.69	25.87	27.04	27.42	25.47	26.69	25.87	27.04	27.42
	3H	26.40	27.40	26.82	27.80	28.20	26.40	27.40	26.82	27.80	28.20
	4H	26.69	27.57	27.12	27.99	28.43	26.69	27.57	27.12	27.99	28.43
	6H	26.85	27.62	27.31	28.06	28.53	26.85	27.62	27.31	28.06	28.53
	8H	26.87	27.58	27.33	28.03	28.50	26.87	27.58	27.33	28.03	28.50
	12H	26.86	27.49	27.34	27.98	28.45	26.86	27.49	27.34	27.98	28.45
8H	4H	26.75	27.46	27.21	27.91	28.38	26.75	27.46	27.21	27.91	28.38
	6H	26.95	27.54	27.45	28.03	28.51	26.95	27.54	27.45	28.03	28.51
	8H	26.98	27.51	27.50	28.03	28.52	26.98	27.51	27.50	28.03	28.52
	12H	26.99	27.46	27.50	27.95	28.52	26.99	27.46	27.50	27.95	28.52
12H	4H	26.73	27.36	27.21	27.84	28.32	26.73	27.36	27.21	27.84	28.32
	6H	26.92	27.46	27.44	27.97	28.46	26.92	27.46	27.44	27.97	28.46
	8H	26.98	27.46	27.50	27.95	28.52	26.98	27.46	27.50	27.95	28.52