

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: P1036863

Luminaire Tested: UHBS2-4860-L8C5-MID-M-4000K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-430-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/30/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-4860-L8C5-MID-M-4000K
Description: UHBS Selectable High Bay at MID lumen, 4000K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

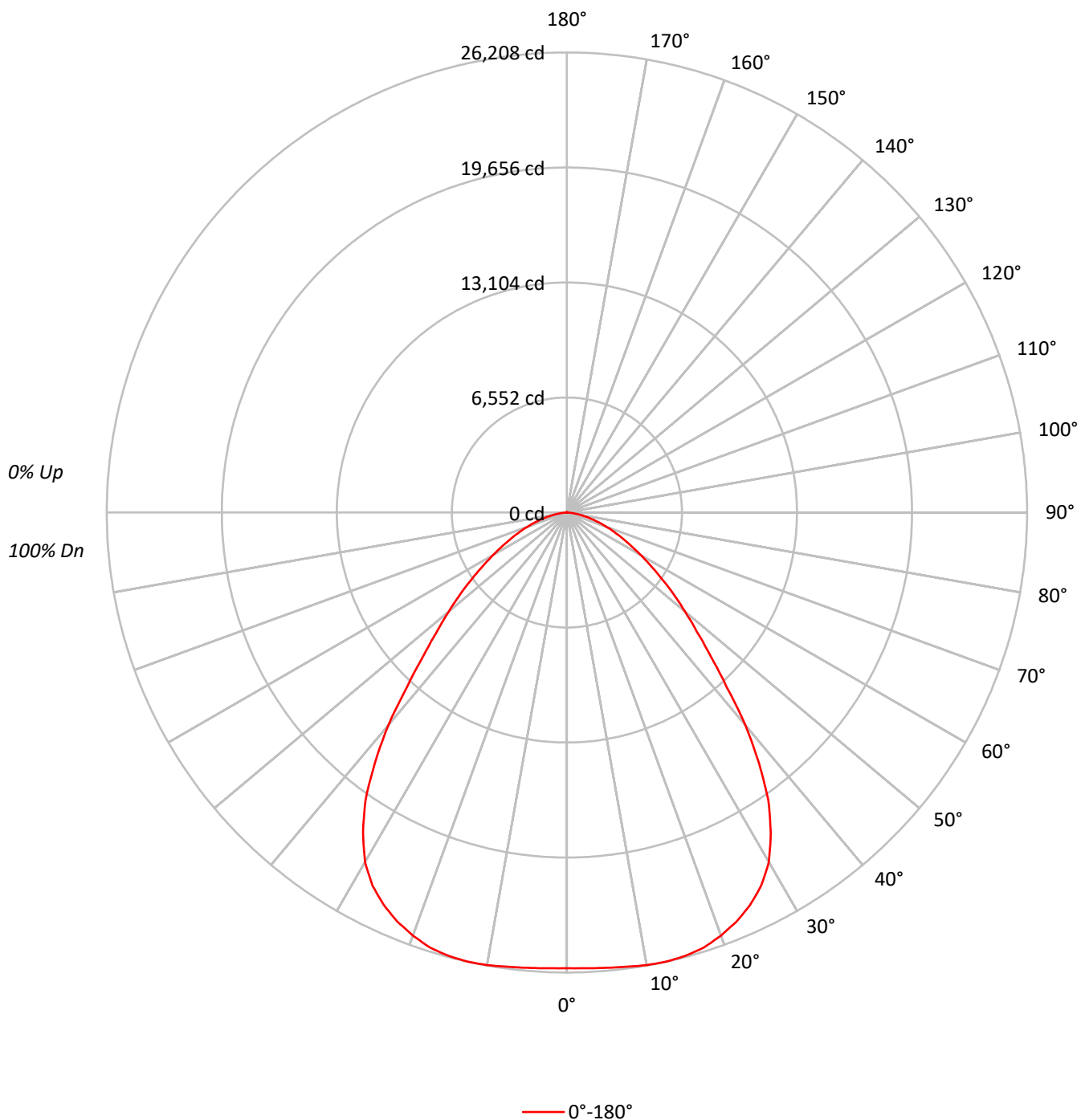
Lumens per Lamp: N/A
Luminaire Lumens: 54030.9 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 346.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9978
Total Harmonic Distortion (THDi): 3.3895
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	104	100	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	91	86	82		87	84	81		84
3	95	86	79	74	93	84	78	73	82	76	72		79	74	70		77
4	88	78	70	64	86	76	69	64	74	68	63		72	66	62		70
5	82	70	63	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	45	69	58	51	45	57	50	45		55	49	45		54
8	66	54	46	41	65	54	46	41	52	46	41		51	45	41		50
9	62	50	43	37	61	50	42	37	48	42	37		47	41	37		46
10	59	46	39	34	57	46	39	34	45	39	34		44	38	34		43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	128103
5°	128943
10°	131180
15°	133526
20°	134656
25°	134326
30°	131013
35°	120423
40°	101886
45°	80623
50°	67370
55°	56752
60°	47984
65°	40867
70°	34799
75°	28773
80°	21312
85°	13292

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 80623 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2489.9	4.6
10°-20°	7380.1	13.7
20°-30°	11327.1	21.0
30°-40°	12312.3	22.8
40°-50°	9090.1	16.8
50°-60°	5965.6	11.0
60°-70°	3512.5	6.5
70°-80°	1610.5	3.0
80°-90°	314.6	0.6
90°-100°	1.0	0.0
100°-110°	1.0	0.0
110°-120°	1.0	0.0
120°-130°	2.1	0.0
130°-140°	4.3	0.0
140°-150°	6.0	0.0
150°-160°	6.0	0.0
160°-170°	5.0	0.0
170°-180°	1.9	0.0
0°-30°	21197.1	39.2
0°-40°	33509.4	62.0
0°-60°	48565.1	89.9
0°-90°	54002.7	99.9
90°-120°	3.0	0.0
90°-150°	15.3	0.0
90°-180°	28.0	0.1
0°-180°	54030.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	25964	
5°	26035	###
15°	26141	7380
25°	24675	11327
35°	19994	12312
45°	11555	9090
55°	6598	5966
65°	3501	3512
75°	1509	1610
85°	235	306
90°	3	9
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	6	4
145°	9	6
155°	13	6
165°	18	5
175°	20	2
180°	21	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	25964.2
2.5°	25987.5
5°	26035.1
7.5°	26101.2
10°	26184.1
12.5°	26208.4
15°	26141.3
17.5°	25978.2
20°	25646.5
22.5°	25227.2
25°	24674.7
27.5°	23967.5
30°	22996.6
32.5°	21611.1
35°	19993.6
37.5°	17948.4
40°	15819.3
42.5°	13453.6
45°	11554.7
47.5°	10024.7
50°	8777.1
52.5°	7659.0
55°	6597.7
57.5°	5671.6
60°	4862.8
62.5°	4143.5
65°	3500.6
67.5°	2935.0
70°	2412.3
72.5°	1943.6
75°	1509.4
77.5°	1079.9
80°	750.1
82.5°	482.6
85°	234.8
87.5°	63.4
90°	2.8
92.5°	0.0
95°	0.9
97.5°	0.9
100°	0.9
102.5°	0.9
105°	0.9
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°	1.9
122.5°	1.9
125°	1.9
127.5°	2.8
130°	3.7
132.5°	4.7
135°	5.6
137.5°	6.5
140°	7.5
142.5°	8.4
145°	9.3
147.5°	11.2
150°	11.2
152.5°	12.1
155°	13.0
157.5°	14.0
160°	15.8
162.5°	16.8
165°	17.7
167.5°	18.6
170°	19.6
172.5°	19.6
175°	20.5
177.5°	21.4
180°	21.4

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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	24.59	26.00	24.95	26.31	26.63	24.59	26.00	24.95	26.31	26.63
	3H	25.73	26.99	26.11	27.32	27.68	25.73	26.99	26.11	27.32	27.68
	4H	26.10	27.27	26.50	27.62	28.00	26.10	27.27	26.50	27.62	28.00
	6H	26.28	27.36	26.70	27.73	28.13	26.28	27.36	26.70	27.73	28.13
	8H	26.32	27.34	26.75	27.73	28.14	26.32	27.34	26.75	27.73	28.14
	12H	26.32	27.30	26.75	27.68	28.12	26.32	27.30	26.75	27.68	28.12
4H	2H	24.98	26.15	25.38	26.50	26.88	24.98	26.15	25.38	26.50	26.88
	3H	26.32	27.28	26.73	27.68	28.09	26.32	27.28	26.73	27.68	28.09
	4H	26.77	27.64	27.21	28.06	28.50	26.77	27.64	27.21	28.06	28.50
	6H	27.04	27.79	27.50	28.23	28.70	27.04	27.79	27.50	28.23	28.70
	8H	27.10	27.79	27.56	28.24	28.71	27.10	27.79	27.56	28.24	28.71
	12H	27.12	27.73	27.60	28.22	28.69	27.12	27.73	27.60	28.22	28.69
8H	4H	26.90	27.60	27.37	28.05	28.52	26.90	27.60	27.37	28.05	28.52
	6H	27.23	27.80	27.73	28.30	28.78	27.23	27.80	27.73	28.30	28.78
	8H	27.32	27.84	27.84	28.35	28.84	27.32	27.84	27.84	28.35	28.84
	12H	27.37	27.83	27.89	28.32	28.89	27.37	27.83	27.89	28.32	28.89
12H	4H	26.89	27.51	27.37	27.99	28.46	26.89	27.51	27.37	27.99	28.46
	6H	27.22	27.74	27.74	28.25	28.74	27.22	27.74	27.74	28.25	28.74
	8H	27.35	27.80	27.87	28.30	28.87	27.35	27.80	27.87	28.30	28.87