

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: P1036862

Luminaire Tested: UHBS2-4860-L8C5-MID-M-3500K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036862
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-3500K
Description: UHBS Selectable High Bay at MID lumen, 3500K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

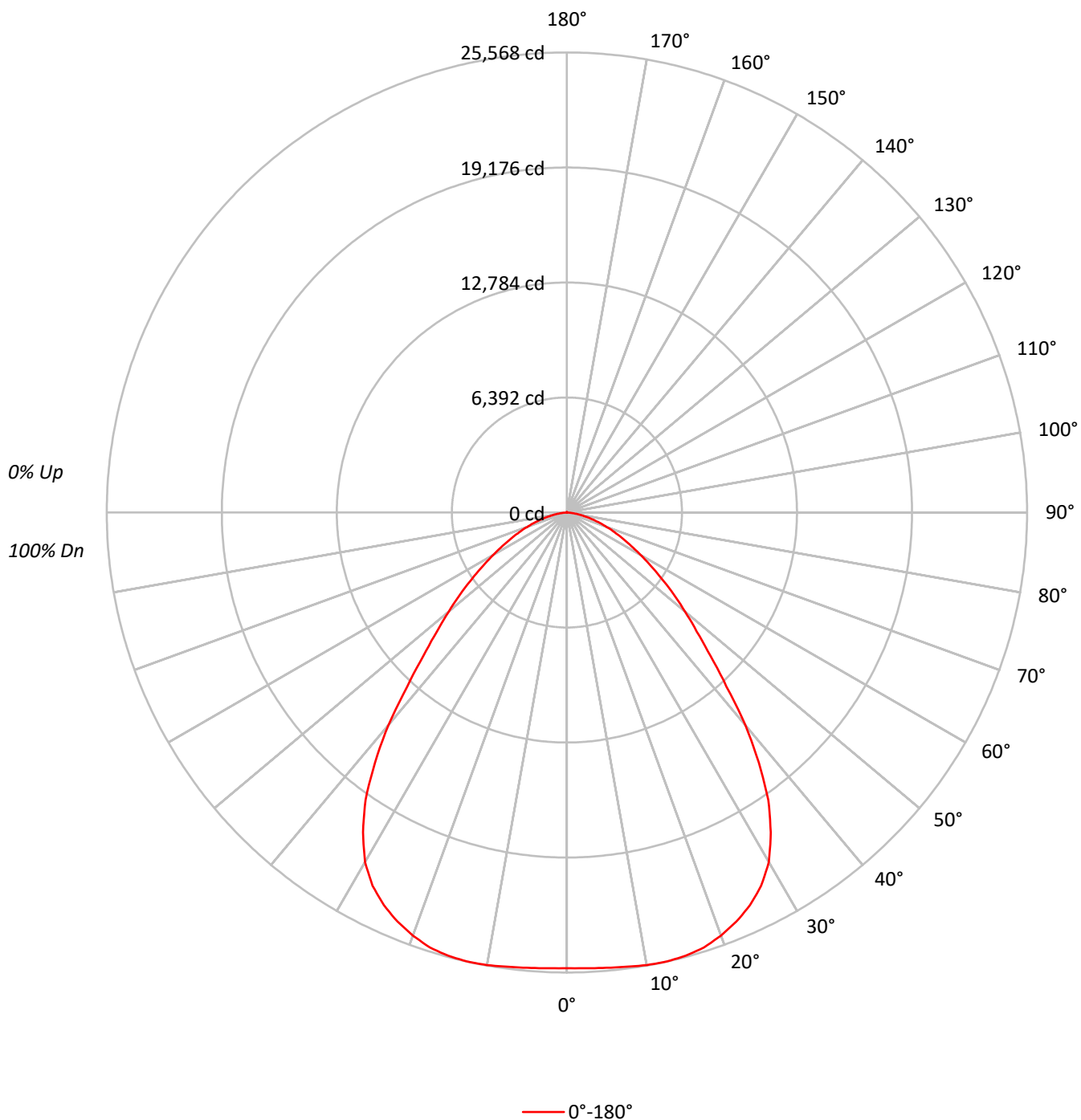
Lumens per Lamp: N/A
Luminaire Lumens: 52709.9 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 350.5
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	77		
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	63	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43		
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39		
9	62	50	43	37	61	50	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124971
5°	125790
10°	127974
15°	130262
20°	131364
25°	131041
30°	127811
35°	117478
40°	99395
45°	78651
50°	65723
55°	55365
60°	46811
65°	39868
70°	33948
75°	28070
80°	20790
85°	12969

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 78651 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2429.0	4.6
10°-20°	7199.6	13.7
20°-30°	11050.2	21.0
30°-40°	12011.3	22.8
40°-50°	8867.9	16.8
50°-60°	5819.7	11.0
60°-70°	3426.6	6.5
70°-80°	1571.1	3.0
80°-90°	306.9	0.6
90°-100°	1.0	0.0
100°-110°	1.0	0.0
110°-120°	1.0	0.0
120°-130°	2.0	0.0
130°-140°	4.2	0.0
140°-150°	5.8	0.0
150°-160°	5.9	0.0
160°-170°	4.9	0.0
170°-180°	1.9	0.0
0°-30°	20678.9	39.2
0°-40°	32690.2	62.0
0°-60°	47377.7	89.9
0°-90°	52682.4	99.9
90°-120°	2.9	0.0
90°-150°	14.9	0.0
90°-180°	28.0	0.1
0°-180°	52709.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	25329	
5°	25398	###
15°	25502	7200
25°	24071	11050
35°	19505	12011
45°	11272	8868
55°	6436	5820
65°	3415	3427
75°	1472	1571
85°	229	298
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°	17	5
175°	20	2
180°	21	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	25329.4
2.5°	25352.2
5°	25398.5
7.5°	25463.1
10°	25544.0
12.5°	25567.6
15°	25502.2
17.5°	25343.1
20°	25019.5
22.5°	24610.5
25°	24071.4
27.5°	23381.5
30°	22434.4
32.5°	21082.7
35°	19504.7
37.5°	17509.6
40°	15432.5
42.5°	13124.7
45°	11272.2
47.5°	9779.6
50°	8562.5
52.5°	7471.8
55°	6436.4
57.5°	5532.9
60°	4743.9
62.5°	4042.2
65°	3415.0
67.5°	2863.3
70°	2353.3
72.5°	1896.1
75°	1472.5
77.5°	1053.5
80°	731.7
82.5°	470.8
85°	229.1
87.5°	61.8
90°	2.7
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°	1.8
122.5°	1.8
125°	1.8
127.5°	2.7
130°	3.6
132.5°	4.5
135°	5.5
137.5°	6.4
140°	7.3
142.5°	8.2
145°	9.1
147.5°	10.9
150°	10.9
152.5°	11.8
155°	12.7
157.5°	13.6
160°	15.5
162.5°	16.4
165°	17.3
167.5°	18.2
170°	19.1
172.5°	19.1
175°	20.0
177.5°	20.9
180°	20.9

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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	24.50	25.91	24.87	26.22	26.54	24.50	25.91	24.87	26.22	26.54
	3H	25.65	26.90	26.03	27.23	27.60	25.65	26.90	26.03	27.23	27.60
	4H	26.01	27.18	26.41	27.53	27.92	26.01	27.18	26.41	27.53	27.92
	6H	26.20	27.28	26.61	27.65	28.04	26.20	27.28	26.61	27.65	28.04
	8H	26.23	27.26	26.66	27.65	28.05	26.23	27.26	26.66	27.65	28.05
	12H	26.24	27.22	26.67	27.60	28.03	26.24	27.22	26.67	27.60	28.03
4H	2H	24.89	26.06	25.29	26.41	26.80	24.89	26.06	25.29	26.41	26.80
	3H	26.23	27.19	26.64	27.60	28.00	26.23	27.19	26.64	27.60	28.00
	4H	26.69	27.55	27.12	27.97	28.41	26.69	27.55	27.12	27.97	28.41
	6H	26.96	27.70	27.42	28.15	28.61	26.96	27.70	27.42	28.15	28.61
	8H	27.01	27.71	27.48	28.15	28.63	27.01	27.71	27.48	28.15	28.63
	12H	27.03	27.65	27.52	28.13	28.61	27.03	27.65	27.52	28.13	28.61
8H	4H	26.82	27.51	27.28	27.96	28.43	26.82	27.51	27.28	27.96	28.43
	6H	27.15	27.72	27.65	28.21	28.69	27.15	27.72	27.65	28.21	28.69
	8H	27.24	27.75	27.76	28.26	28.76	27.24	27.75	27.76	28.26	28.76
	12H	27.29	27.74	27.80	28.24	28.81	27.29	27.74	27.80	28.24	28.81
12H	4H	26.80	27.42	27.29	27.90	28.38	26.80	27.42	27.29	27.90	28.38
	6H	27.14	27.65	27.66	28.17	28.66	27.14	27.65	27.66	28.17	28.66
	8H	27.27	27.72	27.78	28.21	28.78	27.27	27.72	27.78	28.21	28.78