

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: P1036866

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036866
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-MID-N-3000K
Description: UHBS Selectable High Bay at MID lumen, 3000K CCT settings with Narrow beam
Light Source: -
Ballast/Driver: -

Summary

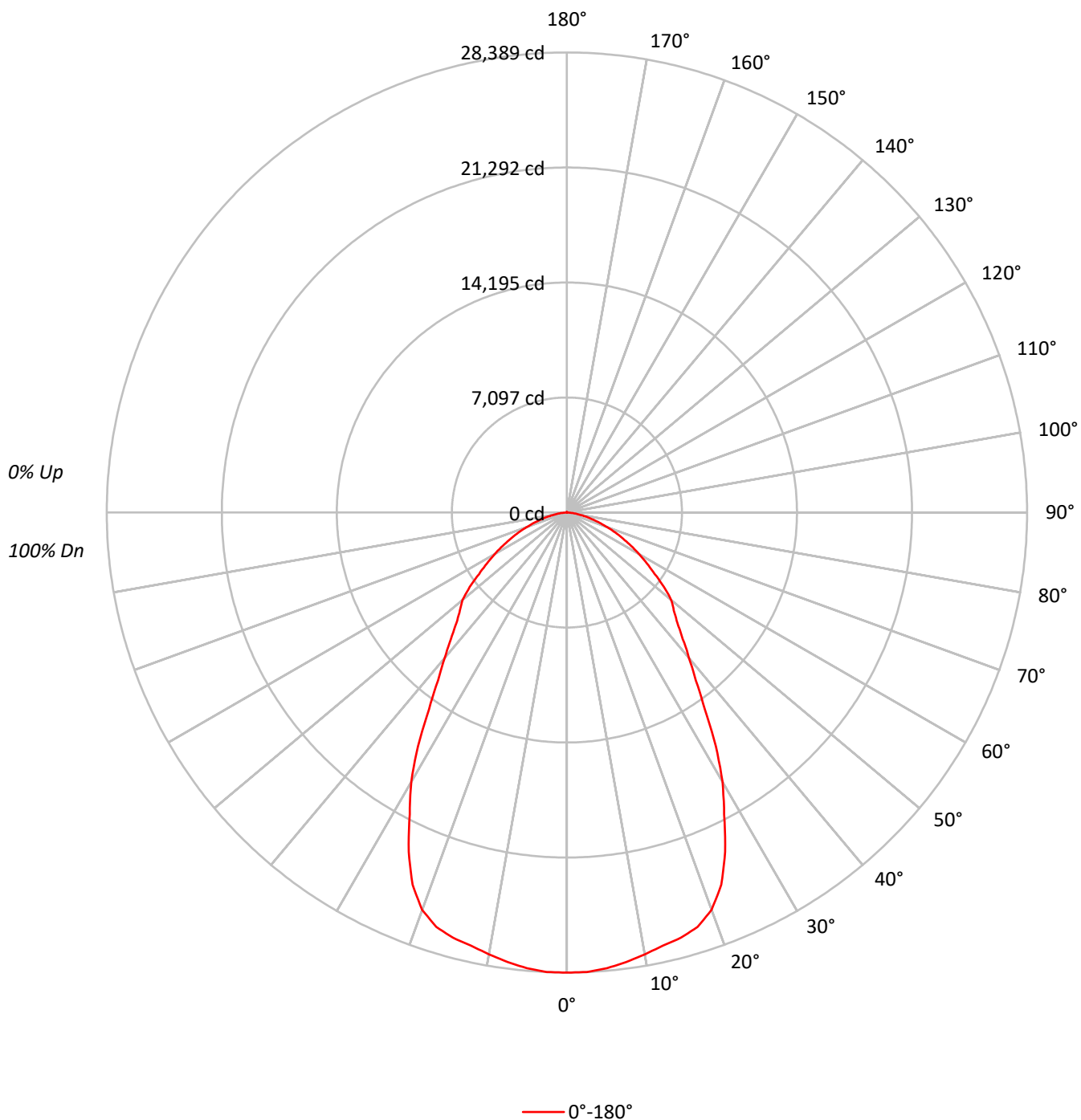
Lumens per Lamp: N/A
Luminaire Lumens: 49744.1 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 356
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	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°	140067
5°	139803
10°	138705
15°	138770
20°	137010
25°	125752
30°	109339
35°	89271
40°	75476
45°	67140
50°	64490
55°	56910
60°	50836
65°	44678
70°	38044
75°	31103
80°	24387
85°	17373

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 67140 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2676.9	5.4
10°-20°	7650.4	15.4
20°-30°	10503.4	21.1
30°-40°	9397.8	18.9
40°-50°	7557.3	15.2
50°-60°	5982.4	12.0
60°-70°	3810.0	7.7
70°-80°	1761.0	3.5
80°-90°	380.6	0.8
90°-100°	0.2	0.0
100°-110°	0.6	0.0
110°-120°	0.9	0.0
120°-130°	1.6	0.0
130°-140°	3.4	0.0
140°-150°	5.2	0.0
150°-160°	5.8	0.0
160°-170°	4.9	0.0
170°-180°	1.9	0.0
0°-30°	20830.7	41.9
0°-40°	30228.6	60.8
0°-60°	43768.3	88.0
0°-90°	49719.8	100.0
90°-120°	1.7	0.0
90°-150°	11.9	0.0
90°-180°	25.0	0.1
0°-180°	49744.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	28389	
5°	28228	###
15°	27168	7650
25°	23100	10503
35°	14822	9398
45°	9622	7557
55°	6616	5982
65°	3827	3810
75°	1632	1761
85°	307	369
90°	2	12
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	4	3
145°	9	5
155°	12	6
165°	18	5
175°	21	2
180°	22	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	28389.2
2.5°	28384.0
5°	28227.9
7.5°	27986.8
10°	27686.1
12.5°	27371.3
15°	27167.9
17.5°	26810.2
20°	26094.8
22.5°	24868.2
25°	23099.8
27.5°	21003.5
30°	19192.1
32.5°	17100.2
35°	14821.5
37.5°	13064.5
40°	11718.7
42.5°	10586.8
45°	9622.4
47.5°	8944.6
50°	8401.9
52.5°	7554.1
55°	6616.0
57.5°	5852.3
60°	5151.8
62.5°	4462.7
65°	3827.0
67.5°	3232.6
70°	2637.3
72.5°	2113.0
75°	1631.6
77.5°	1192.4
80°	858.3
82.5°	579.5
85°	306.9
87.5°	83.3
90°	1.8
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°	1.8
125°	1.8
127.5°	1.8
130°	2.6
132.5°	3.5
135°	4.4
137.5°	5.3
140°	6.1
142.5°	7.0
145°	8.8
147.5°	9.6
150°	10.5
152.5°	11.4
155°	12.3
157.5°	14.0
160°	14.9
162.5°	16.7
165°	17.5
167.5°	18.4
170°	19.3
172.5°	20.2
175°	21.0
177.5°	21.0
180°	21.9

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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	25.08	26.51	25.44	26.82	27.14	25.08	26.51	25.44	26.82	27.14
	3H	26.36	27.64	26.74	27.97	28.33	26.36	27.64	26.74	27.97	28.33
	4H	26.74	27.94	27.14	28.29	28.67	26.74	27.94	27.14	28.29	28.67
	6H	26.96	28.06	27.37	28.43	28.83	26.96	28.06	27.37	28.43	28.83
	8H	27.01	28.06	27.44	28.45	28.86	27.01	28.06	27.44	28.45	28.86
	12H	27.03	28.04	27.47	28.42	28.85	27.03	28.04	27.47	28.42	28.85
4H	2H	25.53	26.72	25.93	27.08	27.46	25.53	26.72	25.93	27.08	27.46
	3H	26.99	27.98	27.40	28.38	28.79	26.99	27.98	27.40	28.38	28.79
	4H	27.47	28.36	27.90	28.77	29.22	27.47	28.36	27.90	28.77	29.22
	6H	27.77	28.54	28.24	28.99	29.45	27.77	28.54	28.24	28.99	29.45
	8H	27.85	28.57	28.32	29.02	29.49	27.85	28.57	28.32	29.02	29.49
	12H	27.90	28.53	28.38	29.02	29.49	27.90	28.53	28.38	29.02	29.49
8H	4H	27.62	28.33	28.08	28.78	29.25	27.62	28.33	28.08	28.78	29.25
	6H	28.00	28.58	28.50	29.08	29.56	28.00	28.58	28.50	29.08	29.56
	8H	28.12	28.65	28.64	29.16	29.65	28.12	28.65	28.64	29.16	29.65
	12H	28.20	28.67	28.72	29.16	29.73	28.20	28.67	28.72	29.16	29.73
12H	4H	27.61	28.25	28.09	28.73	29.20	27.61	28.25	28.09	28.73	29.20
	6H	28.00	28.53	28.52	29.04	29.53	28.00	28.53	28.52	29.04	29.53
	8H	28.16	28.63	28.68	29.12	29.69	28.16	28.63	28.68	29.12	29.69