

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: P1036873

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036873
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-MID-W-4000K
Description: UHBS Selectable High Bay at MID lumen, 4000K CCT settings with Wide beam
Light Source: -
Ballast/Driver: -

Summary

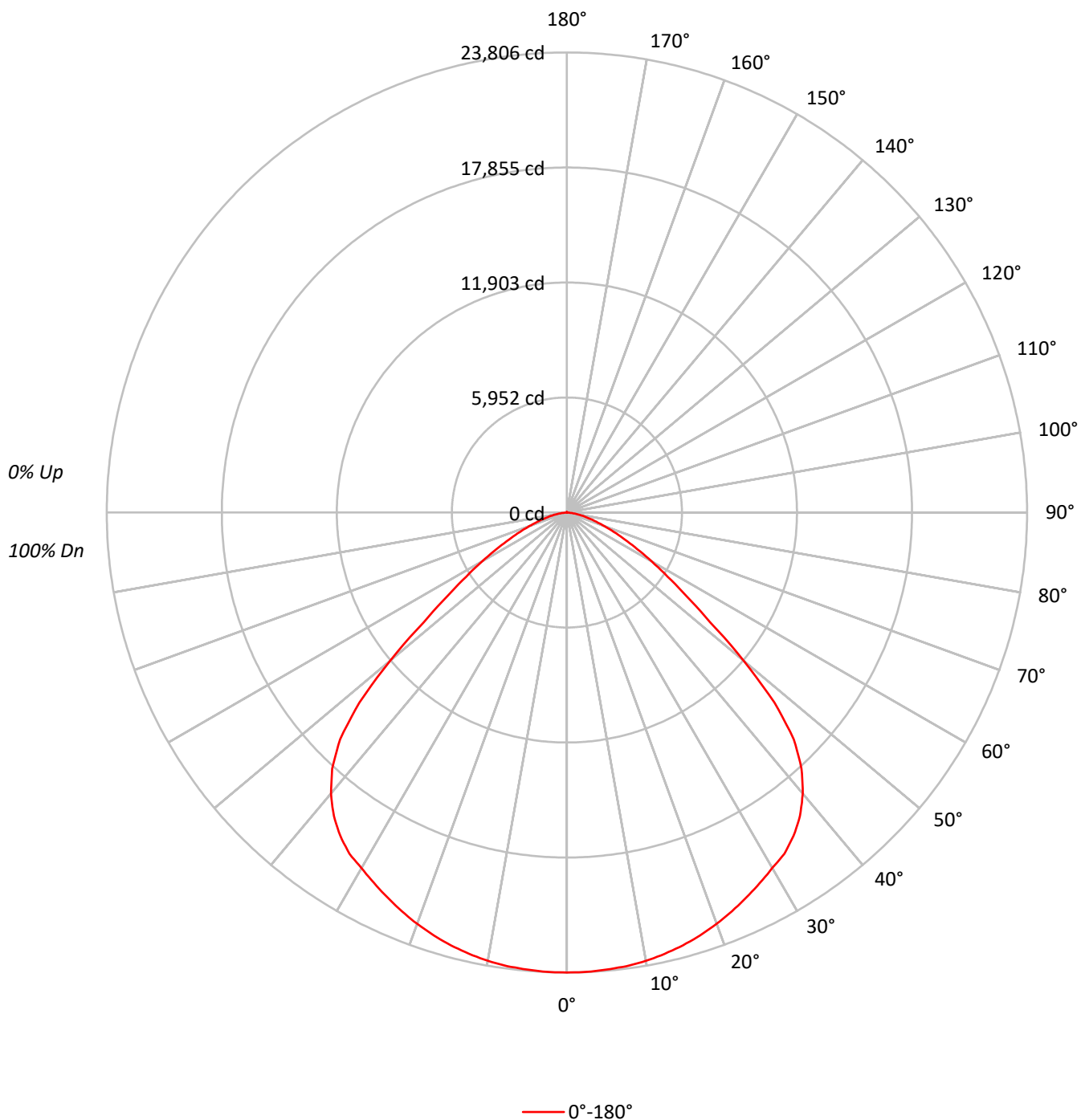
Lumens per Lamp: N/A
Luminaire Lumens: 56075.9 lumens
Efficiency: N/A
Efficacy: 162.0 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.41
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	117456
5°	117591
10°	118045
15°	118440
20°	118947
25°	119652
30°	121061
35°	123100
40°	122272
45°	115769
50°	91615
55°	64823
60°	49897
65°	38496
70°	29799
75°	23020
80°	16837
85°	8016

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 115769 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2261.0	4.0
10°-20°	6551.3	11.7
20°-30°	10149.6	18.1
30°-40°	12740.3	22.7
40°-50°	12430.4	22.2
50°-60°	7019.1	12.5
60°-70°	3353.9	6.0
70°-80°	1319.5	2.4
80°-90°	224.5	0.4
90°-100°	0.8	0.0
100°-110°	1.0	0.0
110°-120°	1.3	0.0
120°-130°	2.3	0.0
130°-140°	4.3	0.0
140°-150°	5.7	0.0
150°-160°	5.3	0.0
160°-170°	4.2	0.0
170°-180°	1.6	0.0
0°-30°	18961.9	33.8
0°-40°	31702.2	56.5
0°-60°	51151.7	91.2
0°-90°	56049.5	100.0
90°-120°	3.0	0.0
90°-150°	15.3	0.0
90°-180°	26.0	0.0
0°-180°	56075.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23806	
5°	23743	###
15°	23188	6551
25°	21979	10150
35°	20438	12740
45°	16592	12430
55°	7536	7019
65°	3298	3354
75°	1208	1319
85°	142	219
90°	3	6
95°	0	0
105°	1	1
115°	1	1
125°	3	2
135°	6	4
145°	9	6
155°	11	5
165°	15	4
175°	18	2
180°	19	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	23806.3
2.5°	23794.2
5°	23743.0
7.5°	23675.0
10°	23562.2
12.5°	23390.8
15°	23187.7
17.5°	22942.6
20°	22654.7
22.5°	22325.8
25°	21979.2
27.5°	21618.6
30°	21249.6
32.5°	20938.4
35°	20438.0
37.5°	19805.4
40°	18984.5
42.5°	17968.9
45°	16591.8
47.5°	14560.5
50°	11935.8
52.5°	9349.2
55°	7536.0
57.5°	6169.1
60°	5056.6
62.5°	4106.2
65°	3297.5
67.5°	2626.6
70°	2065.7
72.5°	1598.9
75°	1207.6
77.5°	874.9
80°	592.6
82.5°	347.5
85°	141.6
87.5°	39.1
90°	2.8
92.5°	0.0
95°	0.0
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°	1.9
120°	1.9
122.5°	1.9
125°	2.8
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°	10.2
150°	10.2
152.5°	11.2
155°	11.2
157.5°	12.1
160°	13.0
162.5°	14.0
165°	14.9
167.5°	15.8
170°	16.8
172.5°	16.8
175°	17.7
177.5°	17.7
180°	18.6

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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	24.95	26.42	25.32	26.73	27.05	24.95	26.42	25.32	26.73	27.05
	3H	25.72	27.02	26.10	27.35	27.72	25.72	27.02	26.10	27.35	27.72
	4H	25.93	27.15	26.33	27.50	27.88	25.93	27.15	26.33	27.50	27.88
	6H	26.03	27.15	26.45	27.52	27.91	26.03	27.15	26.45	27.52	27.91
	8H	26.04	27.10	26.47	27.49	27.90	26.04	27.10	26.47	27.49	27.90
	12H	26.02	27.04	26.45	27.42	27.85	26.02	27.04	26.45	27.42	27.85
4H	2H	25.23	26.44	25.63	26.79	27.17	25.23	26.44	25.63	26.79	27.17
	3H	26.16	27.15	26.57	27.55	27.96	26.16	27.15	26.57	27.55	27.96
	4H	26.44	27.33	26.88	27.75	28.19	26.44	27.33	26.88	27.75	28.19
	6H	26.61	27.37	27.07	27.82	28.28	26.61	27.37	27.07	27.82	28.28
	8H	26.62	27.34	27.09	27.78	28.25	26.62	27.34	27.09	27.78	28.25
	12H	26.61	27.25	27.10	27.73	28.20	26.61	27.25	27.10	27.73	28.20
8H	4H	26.50	27.22	26.97	27.66	28.13	26.50	27.22	26.97	27.66	28.13
	6H	26.70	27.29	27.20	27.79	28.27	26.70	27.29	27.20	27.79	28.27
	8H	26.74	27.27	27.26	27.78	28.27	26.74	27.27	27.26	27.78	28.27
	12H	26.74	27.21	27.25	27.71	28.28	26.74	27.21	27.25	27.71	28.28
12H	4H	26.48	27.12	26.97	27.60	28.07	26.48	27.12	26.97	27.60	28.07
	6H	26.68	27.21	27.20	27.72	28.21	26.68	27.21	27.20	27.72	28.21
	8H	26.74	27.21	27.25	27.71	28.27	26.74	27.21	27.25	27.71	28.27