

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: P1036850

Luminaire Tested: UHBS2-4860-L8C5-LOW-M-6500K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036850
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-LOW-M-6500K
Description: UHBS Selectable High Bay at LOW lumen, 6500K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

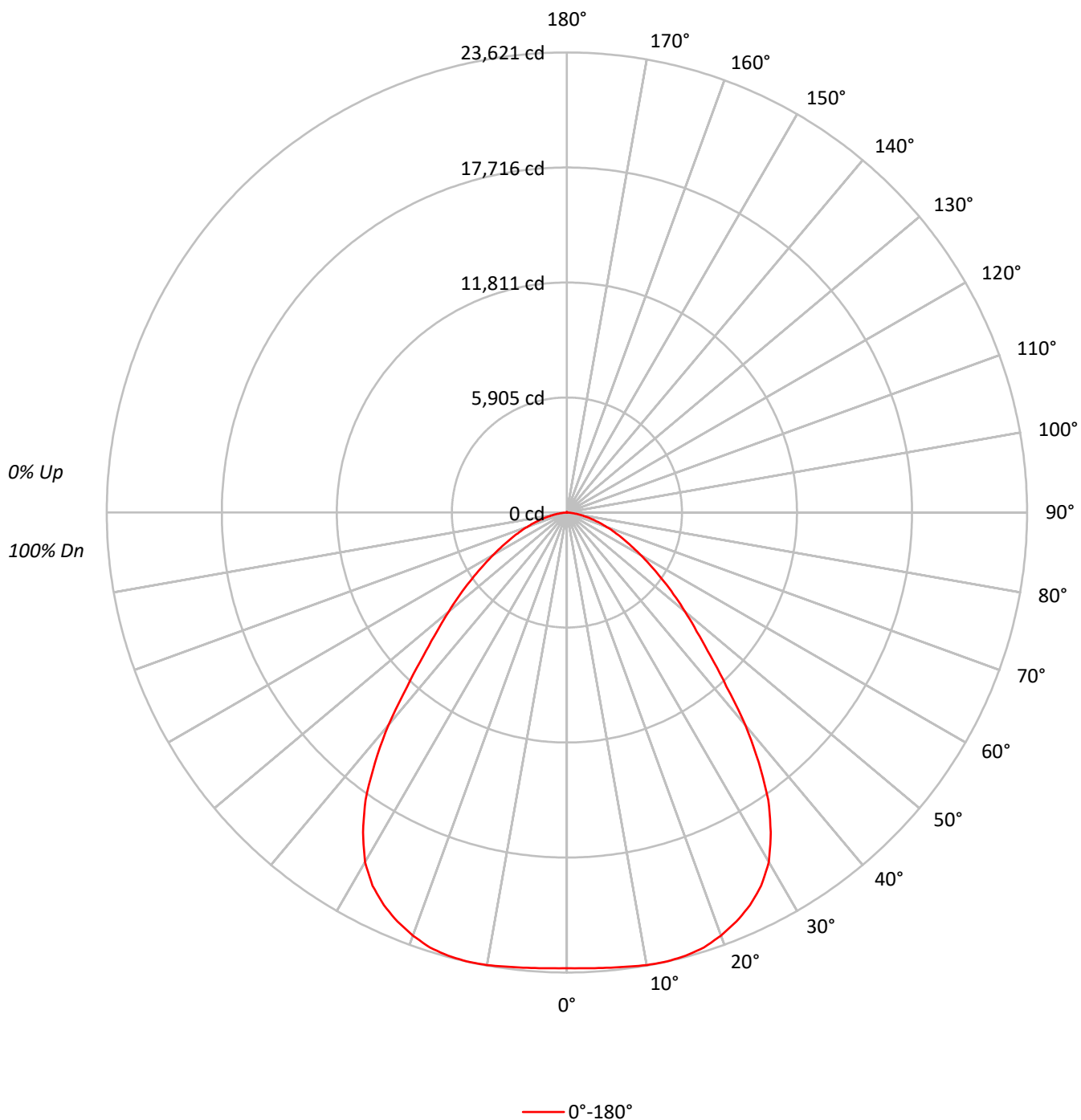
Lumens per Lamp: N/A
Luminaire Lumens: 48696.0 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 316.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9972
Total Harmonic Distortion (THDi): 3.5666
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					30					10					0
RW	70	50	30	10		70	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
1	111	107	104	100		108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	85		100	94	89	84		91	86	82		87	84	81		84	81	79
3	95	86	79	74		93	84	78	73		82	76	72		79	74	70		77	73	69
4	88	78	70	64		86	76	69	64		74	68	63		72	66	62		70	65	61
5	82	70	63	57		80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	51		74	63	56	50		62	55	50		60	54	50		59	53	49
7	71	59	51	45		69	58	51	45		57	50	45		55	49	45		54	49	44
8	66	54	46	41		65	54	46	41		52	46	41		51	45	41		50	44	40
9	62	50	43	37		61	50	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34		57	46	39	34		45	39	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115454
5°	116211
10°	118228
15°	120342
20°	121360
25°	121062
30°	118077
35°	108532
40°	91826
45°	72662
50°	60718
55°	51149
60°	43247
65°	36833
70°	31362
75°	25933
80°	19207
85°	11978

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 72662 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2244.0	4.6
10°-20°	6651.4	13.7
20°-30°	10208.7	21.0
30°-40°	11096.6	22.8
40°-50°	8192.6	16.8
50°-60°	5376.6	11.0
60°-70°	3165.7	6.5
70°-80°	1451.5	3.0
80°-90°	283.5	0.6
90°-100°	0.9	0.0
100°-110°	0.8	0.0
110°-120°	0.9	0.0
120°-130°	1.9	0.0
130°-140°	3.9	0.0
140°-150°	5.4	0.0
150°-160°	5.4	0.0
160°-170°	4.5	0.0
170°-180°	1.7	0.0
0°-30°	19104.1	39.2
0°-40°	30200.7	62.0
0°-60°	43769.8	89.9
0°-90°	48670.6	99.9
90°-120°	2.6	0.0
90°-150°	13.8	0.0
90°-180°	25.0	0.1
0°-180°	48696.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23400	
5°	23464	###
15°	23560	6651
25°	22238	10209
35°	18019	11097
45°	10414	8193
55°	5946	5377
65°	3155	3166
75°	1360	1451
85°	212	275
90°	2	9
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	5	4
145°	8	5
155°	12	5
165°	16	4
175°	18	2
180°	19	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	23400.5
2.5°	23421.5
5°	23464.4
7.5°	23524.0
10°	23598.7
12.5°	23620.6
15°	23560.1
17.5°	23413.1
20°	23114.2
22.5°	22736.3
25°	22238.3
27.5°	21601.0
30°	20725.9
32.5°	19477.2
35°	18019.4
37.5°	16176.2
40°	14257.3
42.5°	12125.2
45°	10413.8
47.5°	9034.9
50°	7910.5
52.5°	6902.8
55°	5946.3
57.5°	5111.6
60°	4382.7
62.5°	3734.4
65°	3155.0
67.5°	2645.2
70°	2174.1
72.5°	1751.7
75°	1360.4
77.5°	973.3
80°	676.0
82.5°	435.0
85°	211.6
87.5°	57.1
90°	2.5
92.5°	0.0
95°	0.8
97.5°	0.8
100°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.8
115°	0.8
117.5°	0.8
120°	1.7
122.5°	1.7
125°	1.7
127.5°	2.5
130°	3.4
132.5°	4.2
135°	5.0
137.5°	5.9
140°	6.7
142.5°	7.6
145°	8.4
147.5°	10.1
150°	10.1
152.5°	10.9
155°	11.8
157.5°	12.6
160°	14.3
162.5°	15.1
165°	16.0
167.5°	16.8
170°	17.6
172.5°	17.6
175°	18.5
177.5°	19.3
180°	19.3

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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	24.23	25.64	24.59	25.95	26.27	24.23	25.64	24.59	25.95	26.27
	3H	25.37	26.63	25.75	26.96	27.32	25.37	26.63	25.75	26.96	27.32
	4H	25.74	26.91	26.14	27.26	27.64	25.74	26.91	26.14	27.26	27.64
	6H	25.92	27.00	26.34	27.37	27.76	25.92	27.00	26.34	27.37	27.76
	8H	25.96	26.98	26.39	27.37	27.78	25.96	26.98	26.39	27.37	27.78
	12H	25.96	26.94	26.39	27.32	27.75	25.96	26.94	26.39	27.32	27.75
4H	2H	24.62	25.79	25.02	26.14	26.52	24.62	25.79	25.02	26.14	26.52
	3H	25.96	26.92	26.37	27.32	27.73	25.96	26.92	26.37	27.32	27.73
	4H	26.41	27.28	26.85	27.69	28.14	26.41	27.28	26.85	27.69	28.14
	6H	26.68	27.43	27.14	27.87	28.34	26.68	27.43	27.14	27.87	28.34
	8H	26.74	27.43	27.20	27.88	28.35	26.74	27.43	27.20	27.88	28.35
	12H	26.76	27.37	27.24	27.86	28.33	26.76	27.37	27.24	27.86	28.33
8H	4H	26.54	27.24	27.01	27.68	28.16	26.54	27.24	27.01	27.68	28.16
	6H	26.87	27.44	27.37	27.94	28.42	26.87	27.44	27.37	27.94	28.42
	8H	26.96	27.48	27.48	27.99	28.48	26.96	27.48	27.48	27.99	28.48
	12H	27.01	27.47	27.53	27.96	28.53	27.01	27.47	27.53	27.96	28.53
12H	4H	26.53	27.15	27.01	27.63	28.10	26.53	27.15	27.01	27.63	28.10
	6H	26.86	27.38	27.38	27.89	28.38	26.86	27.38	27.38	27.89	28.38
	8H	26.99	27.44	27.50	27.94	28.51	26.99	27.44	27.50	27.94	28.51