

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: P1036832

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036832
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-HI-M-3500K
Description: UHBS Selectable High Bay at HI lumen, 3500K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

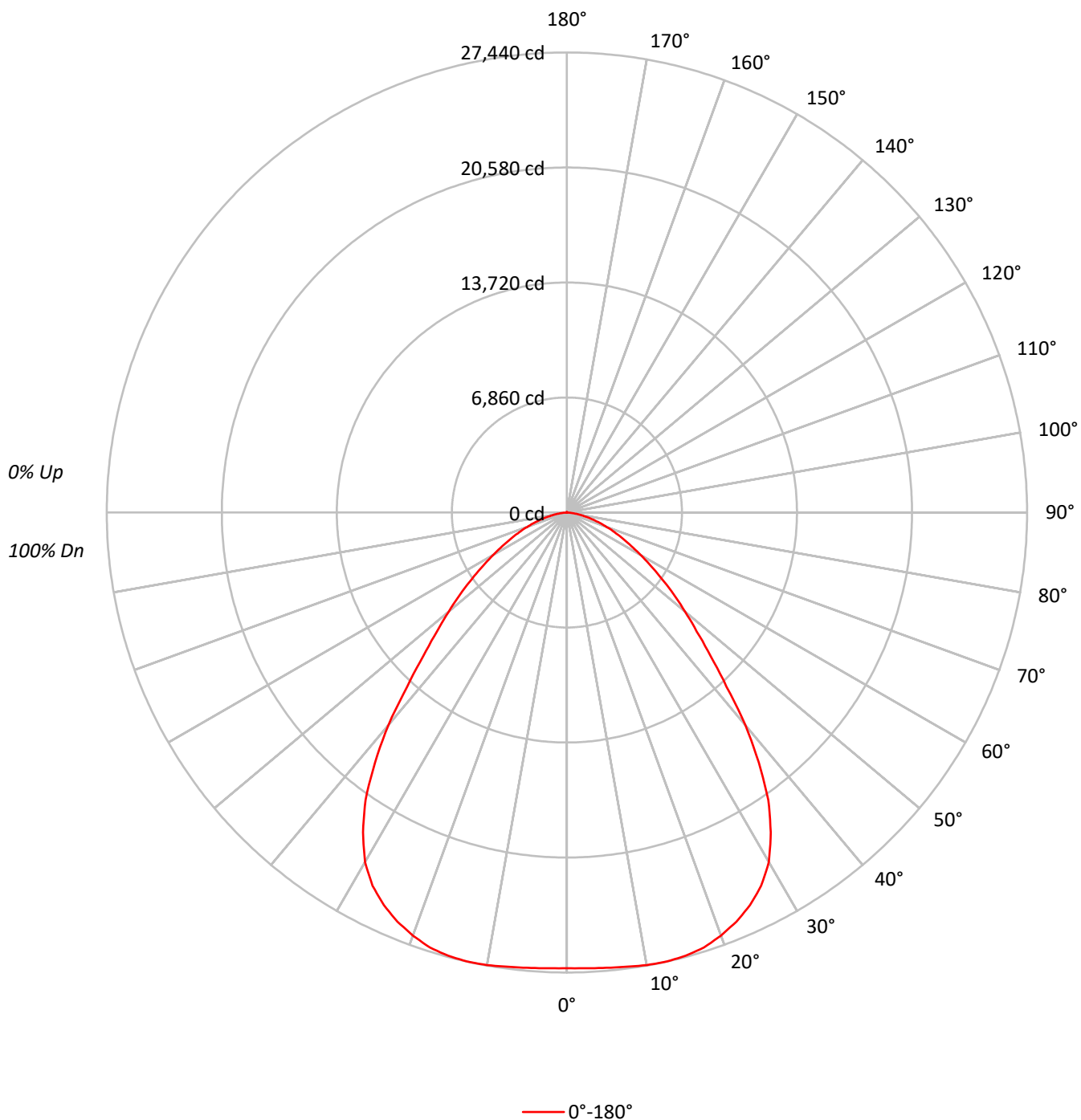
Lumens per Lamp: N/A
Luminaire Lumens: 56571.1 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 381.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9981
Total Harmonic Distortion (THDi): 3.1344
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°	134125
5°	135005
10°	137348
15°	139803
20°	140986
25°	140641
30°	137173
35°	126084
40°	106676
45°	84413
50°	70537
55°	59421
60°	50240
65°	42789
70°	36434
75°	30127
80°	22312
85°	13915

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 84413 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2606.9	4.6
10°-20°	7727.0	13.7
20°-30°	11859.6	21.0
30°-40°	12891.1	22.8
40°-50°	9517.4	16.8
50°-60°	6246.0	11.0
60°-70°	3677.6	6.5
70°-80°	1686.2	3.0
80°-90°	329.3	0.6
90°-100°	1.1	0.0
100°-110°	1.1	0.0
110°-120°	1.1	0.0
120°-130°	2.2	0.0
130°-140°	4.5	0.0
140°-150°	6.2	0.0
150°-160°	6.3	0.0
160°-170°	5.2	0.0
170°-180°	2.0	0.0
0°-30°	22193.6	39.2
0°-40°	35084.7	62.0
0°-60°	50848.2	89.9
0°-90°	56541.4	99.9
90°-120°	3.2	0.0
90°-150°	16.2	0.0
90°-180°	30.0	0.1
0°-180°	56571.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	27185	
5°	27259	###
15°	27370	7727
25°	25835	11860
35°	20934	12891
45°	12098	9517
55°	6908	6246
65°	3665	3678
75°	1580	1686
85°	246	320
90°	3	10
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	6	4
145°	10	6
155°	14	6
165°	18	5
175°	22	2
180°	22	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	27184.8
2.5°	27209.2
5°	27259.0
7.5°	27328.2
10°	27415.1
12.5°	27440.4
15°	27370.2
17.5°	27199.5
20°	26852.2
22.5°	26413.2
25°	25834.7
27.5°	25094.2
30°	24077.7
32.5°	22627.0
35°	20933.5
37.5°	18792.1
40°	16563.0
42.5°	14086.0
45°	12097.9
47.5°	10496.0
50°	9189.7
52.5°	8019.1
55°	6907.9
57.5°	5938.2
60°	5091.4
62.5°	4338.3
65°	3665.2
67.5°	3073.0
70°	2525.7
72.5°	2035.0
75°	1580.4
77.5°	1130.7
80°	785.3
82.5°	505.3
85°	245.8
87.5°	66.3
90°	2.9
92.5°	0.0
95°	1.0
97.5°	1.0
100°	1.0
102.5°	1.0
105°	1.0
107.5°	1.0
110°	1.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.0
115°	1.0
117.5°	1.0
120°	2.0
122.5°	2.0
125°	2.0
127.5°	2.9
130°	3.9
132.5°	4.9
135°	5.9
137.5°	6.8
140°	7.8
142.5°	8.8
145°	9.8
147.5°	11.7
150°	11.7
152.5°	12.7
155°	13.7
157.5°	14.6
160°	16.6
162.5°	17.6
165°	18.5
167.5°	19.5
170°	20.5
172.5°	20.5
175°	21.5
177.5°	22.4
180°	22.4

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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	24.75	26.16	25.11	26.47	26.79	24.75	26.16	25.11	26.47	26.79
	3H	25.89	27.15	26.27	27.48	27.84	25.89	27.15	26.27	27.48	27.84
	4H	26.26	27.43	26.66	27.78	28.16	26.26	27.43	26.66	27.78	28.16
	6H	26.44	27.52	26.86	27.89	28.29	26.44	27.52	26.86	27.89	28.29
	8H	26.48	27.50	26.91	27.89	28.30	26.48	27.50	26.91	27.89	28.30
	12H	26.48	27.46	26.91	27.84	28.28	26.48	27.46	26.91	27.84	28.28
4H	2H	25.14	26.31	25.54	26.66	27.04	25.14	26.31	25.54	26.66	27.04
	3H	26.48	27.44	26.89	27.84	28.25	26.48	27.44	26.89	27.84	28.25
	4H	26.93	27.80	27.37	28.21	28.66	26.93	27.80	27.37	28.21	28.66
	6H	27.20	27.95	27.66	28.39	28.86	27.20	27.95	27.66	28.39	28.86
	8H	27.26	27.95	27.72	28.40	28.87	27.26	27.95	27.72	28.40	28.87
	12H	27.28	27.89	27.76	28.38	28.85	27.28	27.89	27.76	28.38	28.85
8H	4H	27.06	27.76	27.53	28.21	28.68	27.06	27.76	27.53	28.21	28.68
	6H	27.39	27.96	27.89	28.46	28.94	27.39	27.96	27.89	28.46	28.94
	8H	27.48	28.00	28.00	28.51	29.00	27.48	28.00	28.00	28.51	29.00
	12H	27.53	27.99	28.05	28.48	29.05	27.53	27.99	28.05	28.48	29.05
12H	4H	27.05	27.67	27.53	28.15	28.62	27.05	27.67	27.53	28.15	28.62
	6H	27.38	27.90	27.90	28.41	28.90	27.38	27.90	27.90	28.41	28.90
	8H	27.51	27.96	28.02	28.46	29.03	27.51	27.96	28.02	28.46	29.03