

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: P1036835

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036835
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-6500K
Description: UHBS Selectable High Bay at HI lumen, 6500K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

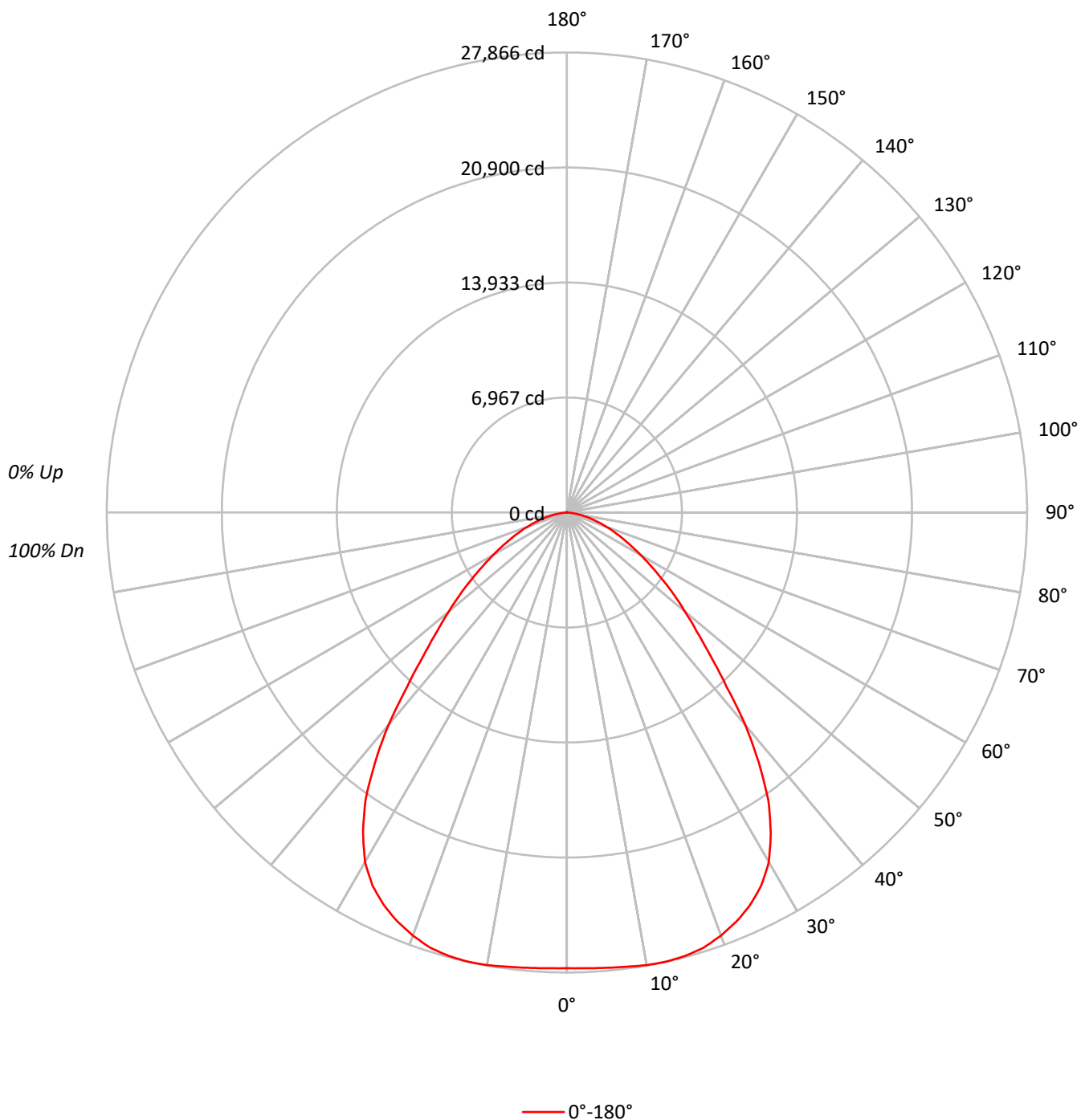
Lumens per Lamp: N/A
Luminaire Lumens: 57448.1 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 386.5
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°	136204
5°	137098
10°	139477
15°	141970
20°	143171
25°	142821
30°	139299
35°	128039
40°	108330
45°	85721
50°	71631
55°	60342
60°	51020
65°	43452
70°	37000
75°	30594
80°	22659
85°	14135

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 85721 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2647.4	4.6
10°-20°	7846.8	13.7
20°-30°	12043.5	21.0
30°-40°	13091.0	22.8
40°-50°	9665.0	16.8
50°-60°	6342.9	11.0
60°-70°	3734.6	6.5
70°-80°	1712.4	3.0
80°-90°	334.5	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°	4.6	0.0
140°-150°	6.3	0.0
150°-160°	6.4	0.0
160°-170°	5.3	0.0
170°-180°	2.0	0.0
0°-30°	22537.6	39.2
0°-40°	35628.6	62.0
0°-60°	51636.4	89.9
0°-90°	57418.0	99.9
90°-120°	3.3	0.0
90°-150°	16.4	0.0
90°-180°	30.0	0.1
0°-180°	57448.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	27606	
5°	27682	###
15°	27794	7847
25°	26235	12043
35°	21258	13091
45°	12285	9665
55°	7015	6343
65°	3722	3735
75°	1605	1712
85°	250	325
90°	3	10
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	6	5
145°	10	6
155°	14	6
165°	19	5
175°	22	2
180°	23	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	27606.3
2.5°	27631.0
5°	27681.6
7.5°	27751.9
10°	27840.1
12.5°	27865.8
15°	27794.5
17.5°	27621.1
20°	27268.4
22.5°	26822.6
25°	26235.2
27.5°	25483.2
30°	24451.0
32.5°	22977.8
35°	21258.0
37.5°	19083.5
40°	16819.7
42.5°	14304.4
45°	12285.4
47.5°	10658.7
50°	9332.2
52.5°	8143.4
55°	7015.0
57.5°	6030.3
60°	5170.4
62.5°	4405.5
65°	3722.0
67.5°	3120.6
70°	2564.9
72.5°	2066.6
75°	1604.9
77.5°	1148.2
80°	797.5
82.5°	513.2
85°	249.7
87.5°	67.4
90°	3.0
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°	3.0
130°	4.0
132.5°	5.0
135°	5.9
137.5°	6.9
140°	7.9
142.5°	8.9
145°	9.9
147.5°	11.9
150°	11.9
152.5°	12.9
155°	13.9
157.5°	14.9
160°	16.8
162.5°	17.8
165°	18.8
167.5°	19.8
170°	20.8
172.5°	20.8
175°	21.8
177.5°	22.8
180°	22.8

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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	24.80	26.21	25.17	26.52	26.84	24.80	26.21	25.17	26.52	26.84
	3H	25.95	27.20	26.33	27.53	27.90	25.95	27.20	26.33	27.53	27.90
	4H	26.31	27.48	26.71	27.83	28.21	26.31	27.48	26.71	27.83	28.21
	6H	26.50	27.57	26.91	27.94	28.34	26.50	27.57	26.91	27.94	28.34
	8H	26.53	27.56	26.96	27.95	28.35	26.53	27.56	26.96	27.95	28.35
	12H	26.54	27.51	26.97	27.90	28.33	26.54	27.51	26.97	27.90	28.33
4H	2H	25.19	26.36	25.59	26.71	27.10	25.19	26.36	25.59	26.71	27.10
	3H	26.53	27.49	26.94	27.90	28.30	26.53	27.49	26.94	27.90	28.30
	4H	26.99	27.85	27.42	28.27	28.71	26.99	27.85	27.42	28.27	28.71
	6H	27.26	28.00	27.72	28.45	28.91	27.26	28.00	27.72	28.45	28.91
	8H	27.31	28.01	27.78	28.45	28.92	27.31	28.01	27.78	28.45	28.92
	12H	27.33	27.95	27.82	28.43	28.90	27.33	27.95	27.82	28.43	28.90
8H	4H	27.12	27.81	27.58	28.26	28.73	27.12	27.81	27.58	28.26	28.73
	6H	27.45	28.02	27.95	28.51	28.99	27.45	28.02	27.95	28.51	28.99
	8H	27.54	28.05	28.06	28.56	29.06	27.54	28.05	28.06	28.56	29.06
	12H	27.59	28.04	28.10	28.53	29.10	27.59	28.04	28.10	28.53	29.10
12H	4H	27.10	27.72	27.59	28.20	28.68	27.10	27.72	27.59	28.20	28.68
	6H	27.44	27.95	27.96	28.47	28.96	27.44	27.95	27.96	28.47	28.96
	8H	27.56	28.02	28.08	28.51	29.08	27.56	28.02	28.08	28.51	29.08