

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: P1036833

Luminaire Tested: UHBS2-4860-L8C5-HI-M-4000K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036833
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-4000K
Description: UHBS Selectable High Bay at HI lumen, 4000K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

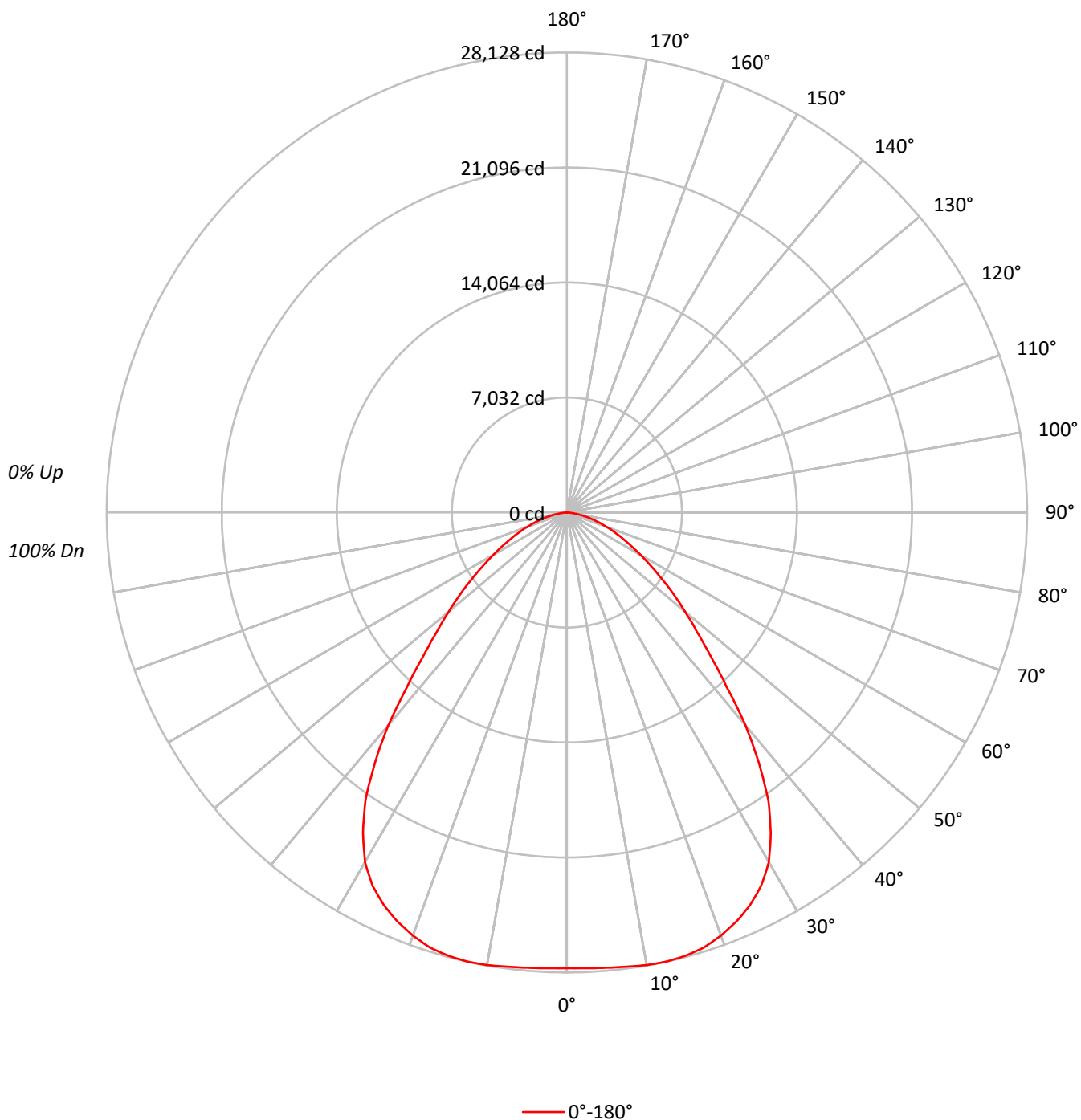
Lumens per Lamp: N/A
Luminaire Lumens: 57988.1 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 377.2
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°	137485
5°	138386
10°	140788
15°	143305
20°	144518
25°	144163
30°	140608
35°	129242
40°	109348
45°	86527
50°	72304
55°	60909
60°	51499
65°	43861
70°	37348
75°	30882
80°	22872
85°	14266

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 86527 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2672.2	4.6
10°-20°	7920.6	13.7
20°-30°	12156.7	21.0
30°-40°	13214.0	22.8
40°-50°	9755.8	16.8
50°-60°	6402.5	11.0
60°-70°	3769.8	6.5
70°-80°	1728.5	3.0
80°-90°	337.6	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°	6.4	0.0
150°-160°	6.5	0.0
160°-170°	5.3	0.0
170°-180°	2.1	0.0
0°-30°	22749.5	39.2
0°-40°	35963.5	62.0
0°-60°	52121.8	89.9
0°-90°	57957.7	99.9
90°-120°	3.3	0.0
90°-150°	16.5	0.0
90°-180°	30.0	0.1
0°-180°	57988.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	27866	
5°	27942	###
15°	28056	7921
25°	26482	12157
35°	21458	13214
45°	12401	9756
55°	7081	6402
65°	3757	3770
75°	1620	1728
85°	252	328
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°	27865.8
2.5°	27890.8
5°	27941.8
7.5°	28012.8
10°	28101.8
12.5°	28127.8
15°	28055.8
17.5°	27880.8
20°	27524.8
22.5°	27074.8
25°	26481.8
27.5°	25722.8
30°	24680.8
32.5°	23193.8
35°	21457.8
37.5°	19262.8
40°	16977.9
42.5°	14438.9
45°	12400.9
47.5°	10758.9
50°	9419.9
52.5°	8219.9
55°	7080.9
57.5°	6086.9
60°	5219.0
62.5°	4447.0
65°	3757.0
67.5°	3150.0
70°	2589.0
72.5°	2086.0
75°	1620.0
77.5°	1159.0
80°	805.0
82.5°	518.0
85°	252.0
87.5°	68.0
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°	6.0
137.5°	7.0
140°	8.0
142.5°	9.0
145°	10.0
147.5°	12.0
150°	12.0
152.5°	13.0
155°	14.0
157.5°	15.0
160°	17.0
162.5°	18.0
165°	19.0
167.5°	20.0
170°	21.0
172.5°	21.0
175°	22.0
177.5°	23.0
180°	23.0

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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	24.83	26.24	25.20	26.56	26.87	24.83	26.24	25.20	26.56	26.87
	3H	25.98	27.23	26.36	27.56	27.93	25.98	27.23	26.36	27.56	27.93
	4H	26.34	27.51	26.74	27.86	28.25	26.34	27.51	26.74	27.86	28.25
	6H	26.53	27.61	26.94	27.98	28.37	26.53	27.61	26.94	27.98	28.37
	8H	26.56	27.59	26.99	27.98	28.38	26.56	27.59	26.99	27.98	28.38
	12H	26.57	27.55	27.00	27.93	28.36	26.57	27.55	27.00	27.93	28.36
4H	2H	25.22	26.39	25.62	26.75	27.13	25.22	26.39	25.62	26.75	27.13
	3H	26.56	27.53	26.97	27.93	28.33	26.56	27.53	26.97	27.93	28.33
	4H	27.02	27.88	27.45	28.30	28.74	27.02	27.88	27.45	28.30	28.74
	6H	27.29	28.03	27.75	28.48	28.94	27.29	28.03	27.75	28.48	28.94
	8H	27.34	28.04	27.81	28.49	28.96	27.34	28.04	27.81	28.49	28.96
	12H	27.36	27.98	27.85	28.46	28.94	27.36	27.98	27.85	28.46	28.94
8H	4H	27.15	27.84	27.62	28.29	28.76	27.15	27.84	27.62	28.29	28.76
	6H	27.48	28.05	27.98	28.55	29.03	27.48	28.05	27.98	28.55	29.03
	8H	27.57	28.08	28.09	28.60	29.09	27.57	28.08	28.09	28.60	29.09
	12H	27.62	28.07	28.13	28.57	29.14	27.62	28.07	28.13	28.57	29.14
12H	4H	27.13	27.75	27.62	28.24	28.71	27.13	27.75	27.62	28.24	28.71
	6H	27.47	27.98	27.99	28.50	28.99	27.47	27.98	27.99	28.50	28.99
	8H	27.60	28.05	28.11	28.54	29.11	27.60	28.05	28.11	28.54	29.11