

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: P1036858

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036858
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-LOW-W-4000K
Description: UHBS Selectable High Bay at LOW lumen, 4000K CCT settings with Wide beam
Light Source: -
Ballast/Driver: -

Summary

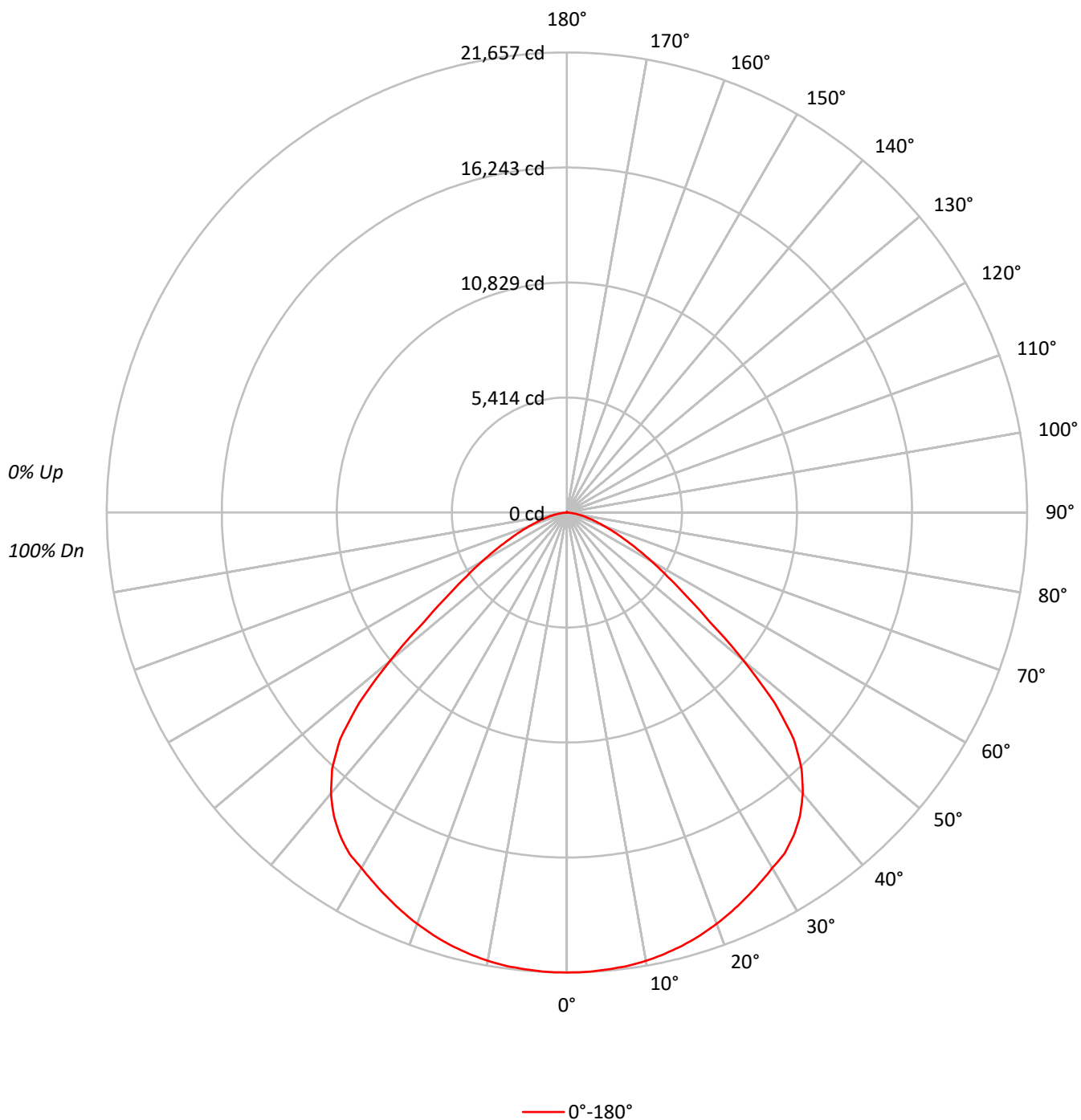
Lumens per Lamp: N/A
Luminaire Lumens: 51013.9 lumens
Efficiency: N/A
Efficacy: 165.1 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.41
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 308.9
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				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°	106853
5°	106976
10°	107389
15°	107748
20°	108210
25°	108851
30°	110132
35°	111988
40°	111235
45°	105318
50°	83345
55°	58973
60°	45393
65°	35021
70°	27108
75°	20940
80°	15317
85°	7291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 105318 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2056.9	4.0
10°-20°	5959.9	11.7
20°-30°	9233.4	18.1
30°-40°	11590.2	22.7
40°-50°	11308.3	22.2
50°-60°	6385.5	12.5
60°-70°	3051.2	6.0
70°-80°	1200.4	2.4
80°-90°	204.2	0.4
90°-100°	0.7	0.0
100°-110°	0.8	0.0
110°-120°	1.1	0.0
120°-130°	2.1	0.0
130°-140°	3.9	0.0
140°-150°	5.2	0.0
150°-160°	4.8	0.0
160°-170°	3.8	0.0
170°-180°	1.5	0.0
0°-30°	17250.2	33.8
0°-40°	28840.4	56.5
0°-60°	46534.2	91.2
0°-90°	50989.9	100.0
90°-120°	2.6	0.0
90°-150°	13.8	0.0
90°-180°	24.0	0.0
0°-180°	51013.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21657	
5°	21600	###
15°	21094	5960
25°	19995	9233
35°	18593	11590
45°	15094	11308
55°	6856	6386
65°	3000	3051
75°	1098	1200
85°	129	199
90°	2	6
95°	0	0
105°	1	1
115°	1	1
125°	2	2
135°	5	4
145°	8	5
155°	10	5
165°	14	4
175°	16	1
180°	17	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	21657.3
2.5°	21646.3
5°	21599.7
7.5°	21537.8
10°	21435.2
12.5°	21279.3
15°	21094.5
17.5°	20871.6
20°	20609.6
22.5°	20310.4
25°	19995.1
27.5°	19667.1
30°	19331.4
32.5°	19048.3
35°	18593.1
37.5°	18017.5
40°	17270.8
42.5°	16346.8
45°	15094.0
47.5°	13246.1
50°	10858.3
52.5°	8505.3
55°	6855.8
57.5°	5612.3
60°	4600.2
62.5°	3735.6
65°	2999.8
67.5°	2389.5
70°	1879.2
72.5°	1454.6
75°	1098.5
77.5°	795.9
80°	539.1
82.5°	316.2
85°	128.8
87.5°	35.6
90°	2.5
92.5°	0.0
95°	0.0
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°	1.7
120°	1.7
122.5°	1.7
125°	2.5
127.5°	2.5
130°	3.4
132.5°	4.2
135°	5.1
137.5°	5.9
140°	6.8
142.5°	7.6
145°	8.5
147.5°	9.3
150°	9.3
152.5°	10.2
155°	10.2
157.5°	11.0
160°	11.9
162.5°	12.7
165°	13.6
167.5°	14.4
170°	15.3
172.5°	15.3
175°	16.1
177.5°	16.1
180°	17.0

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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	24.62	26.09	24.99	26.40	26.72	24.62	26.09	24.99	26.40	26.72
	3H	25.39	26.70	25.77	27.02	27.39	25.39	26.70	25.77	27.02	27.39
	4H	25.60	26.82	26.01	27.17	27.55	25.60	26.82	26.01	27.17	27.55
	6H	25.71	26.82	26.12	27.19	27.59	25.71	26.82	26.12	27.19	27.59
	8H	25.71	26.77	26.14	27.16	27.57	25.71	26.77	26.14	27.16	27.57
	12H	25.69	26.71	26.13	27.09	27.52	25.69	26.71	26.13	27.09	27.52
4H	2H	24.90	26.11	25.30	26.46	26.84	24.90	26.11	25.30	26.46	26.84
	3H	25.83	26.82	26.24	27.23	27.63	25.83	26.82	26.24	27.23	27.63
	4H	26.11	27.00	26.55	27.42	27.86	26.11	27.00	26.55	27.42	27.86
	6H	26.28	27.05	26.74	27.49	27.95	26.28	27.05	26.74	27.49	27.95
	8H	26.29	27.01	26.76	27.46	27.93	26.29	27.01	26.76	27.46	27.93
	12H	26.28	26.92	26.77	27.40	27.88	26.28	26.92	26.77	27.40	27.88
8H	4H	26.17	26.89	26.64	27.33	27.80	26.17	26.89	26.64	27.33	27.80
	6H	26.38	26.97	26.88	27.46	27.94	26.38	26.97	26.88	27.46	27.94
	8H	26.41	26.94	26.93	27.45	27.94	26.41	26.94	26.93	27.45	27.94
	12H	26.41	26.89	26.93	27.38	27.95	26.41	26.89	26.93	27.38	27.95
12H	4H	26.15	26.79	26.64	27.27	27.74	26.15	26.79	26.64	27.27	27.74
	6H	26.35	26.88	26.87	27.39	27.89	26.35	26.88	26.87	27.39	27.89
	8H	26.41	26.88	26.92	27.38	27.95	26.41	26.88	26.92	27.38	27.95