

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: P1036841

Luminaire Tested: UHBS2-4860-L8C5-HI-W-3000K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036841
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-HI-W-3000K
Description: UHBS Selectable High Bay at HI lumen, 3000K CCT settings with Wide beam
Light Source: -
Ballast/Driver: -

Summary

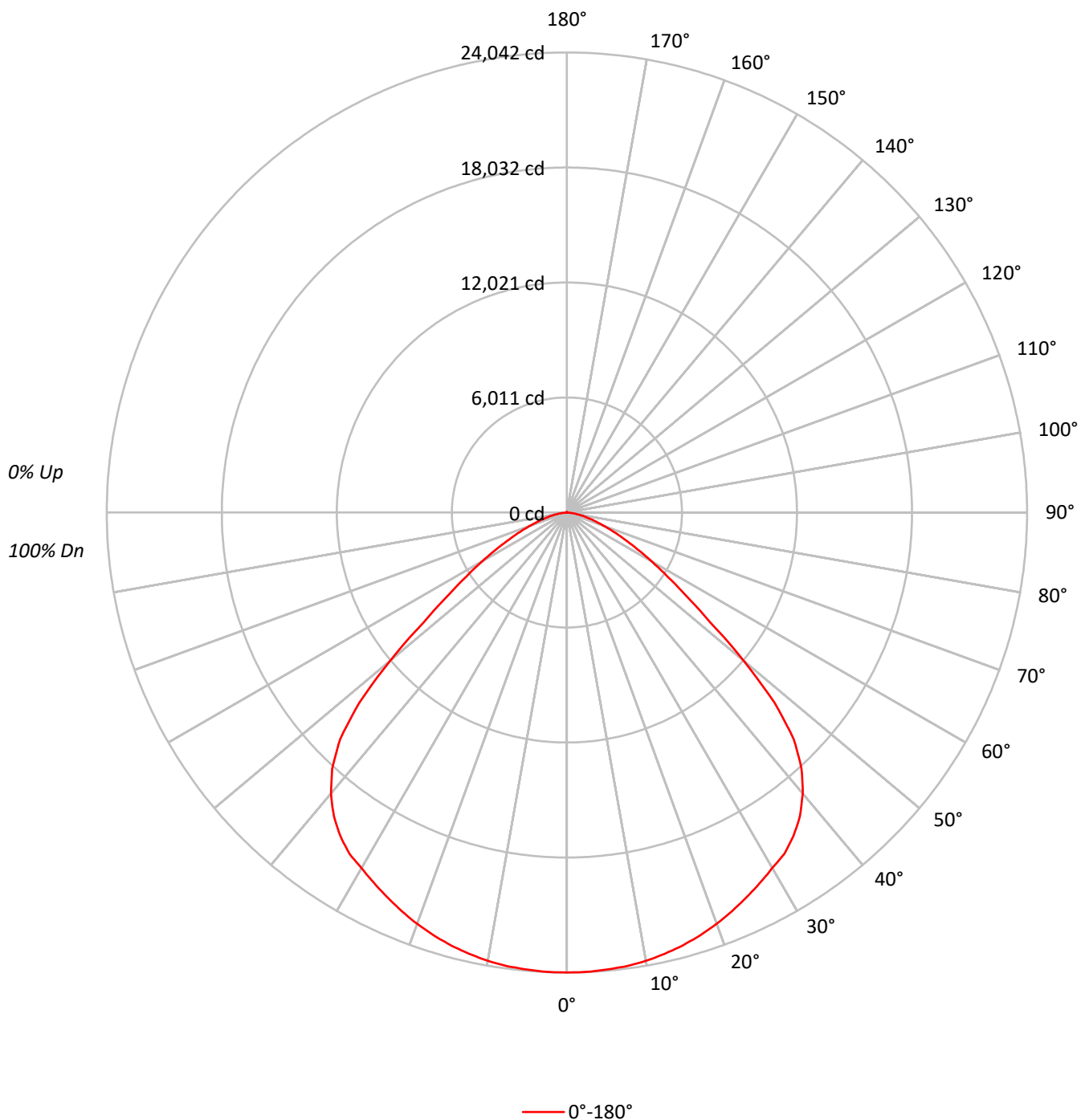
Lumens per Lamp: N/A
Luminaire Lumens: 56630.0 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.41
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 387.9
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	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°	118616
5°	118752
10°	119211
15°	119609
20°	120123
25°	120834
30°	122256
35°	124316
40°	123481
45°	116912
50°	92520
55°	65464
60°	50390
65°	38877
70°	30093
75°	23247
80°	17005
85°	8095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 116912 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2283.3	4.0
10°-20°	6616.0	11.7
20°-30°	10249.8	18.1
30°-40°	12866.2	22.7
40°-50°	12553.2	22.2
50°-60°	7088.5	12.5
60°-70°	3387.1	6.0
70°-80°	1332.5	2.4
80°-90°	226.7	0.4
90°-100°	0.8	0.0
100°-110°	1.0	0.0
110°-120°	1.3	0.0
120°-130°	2.3	0.0
130°-140°	4.3	0.0
140°-150°	5.8	0.0
150°-160°	5.4	0.0
160°-170°	4.2	0.0
170°-180°	1.7	0.0
0°-30°	19149.2	33.8
0°-40°	32015.4	56.5
0°-60°	51657.0	91.2
0°-90°	56603.4	100.0
90°-120°	3.0	0.0
90°-150°	15.4	0.0
90°-180°	27.0	0.0
0°-180°	56630.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	24042	
5°	23978	###
15°	23417	6616
25°	22196	10250
35°	20640	12866
45°	16756	12553
55°	7610	7088
65°	3330	3387
75°	1220	1333
85°	143	221
90°	3	6
95°	0	0
105°	1	1
115°	1	1
125°	3	2
135°	6	4
145°	9	6
155°	11	5
165°	15	4
175°	18	2
180°	19	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	24041.5
2.5°	24029.3
5°	23977.5
7.5°	23908.9
10°	23795.0
12.5°	23621.9
15°	23416.7
17.5°	23169.3
20°	22878.5
22.5°	22546.3
25°	22196.3
27.5°	21832.2
30°	21459.5
32.5°	21145.3
35°	20640.0
37.5°	20001.0
40°	19172.1
42.5°	18146.4
45°	16755.7
47.5°	14704.4
50°	12053.7
52.5°	9441.6
55°	7610.5
57.5°	6230.1
60°	5106.6
62.5°	4146.8
65°	3330.1
67.5°	2652.6
70°	2086.1
72.5°	1614.7
75°	1219.5
77.5°	883.6
80°	598.5
82.5°	351.0
85°	143.0
87.5°	39.5
90°	2.8
92.5°	0.0
95°	0.0
97.5°	0.9
100°	0.9
102.5°	0.9
105°	0.9
107.5°	0.9
110°	0.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	1.9
120°	1.9
122.5°	1.9
125°	2.8
127.5°	2.8
130°	3.8
132.5°	4.7
135°	5.6
137.5°	6.6
140°	7.5
142.5°	8.5
145°	9.4
147.5°	10.4
150°	10.4
152.5°	11.3
155°	11.3
157.5°	12.2
160°	13.2
162.5°	14.1
165°	15.1
167.5°	16.0
170°	16.9
172.5°	16.9
175°	17.9
177.5°	17.9
180°	18.8

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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	24.99	26.45	25.35	26.76	27.08	24.99	26.45	25.35	26.76	27.08
	3H	25.76	27.06	26.14	27.39	27.75	25.76	27.06	26.14	27.39	27.75
	4H	25.97	27.18	26.37	27.53	27.91	25.97	27.18	26.37	27.53	27.91
	6H	26.07	27.19	26.48	27.55	27.95	26.07	27.19	26.48	27.55	27.95
	8H	26.07	27.13	26.50	27.53	27.93	26.07	27.13	26.50	27.53	27.93
	12H	26.06	27.07	26.49	27.45	27.89	26.06	27.07	26.49	27.45	27.89
4H	2H	25.26	26.48	25.66	26.83	27.21	25.26	26.48	25.66	26.83	27.21
	3H	26.19	27.19	26.61	27.59	27.99	26.19	27.19	26.61	27.59	27.99
	4H	26.47	27.36	26.91	27.78	28.22	26.47	27.36	26.91	27.78	28.22
	6H	26.64	27.41	27.10	27.85	28.32	26.64	27.41	27.10	27.85	28.32
	8H	26.66	27.37	27.12	27.82	28.29	26.66	27.37	27.12	27.82	28.29
	12H	26.65	27.28	27.13	27.76	28.24	26.65	27.28	27.13	27.76	28.24
8H	4H	26.53	27.25	27.00	27.70	28.17	26.53	27.25	27.00	27.70	28.17
	6H	26.74	27.33	27.24	27.82	28.30	26.74	27.33	27.24	27.82	28.30
	8H	26.77	27.30	27.29	27.82	28.31	26.77	27.30	27.29	27.82	28.31
	12H	26.78	27.25	27.29	27.74	28.31	26.78	27.25	27.29	27.74	28.31
12H	4H	26.51	27.15	27.00	27.63	28.11	26.51	27.15	27.00	27.63	28.11
	6H	26.71	27.24	27.23	27.76	28.25	26.71	27.24	27.23	27.76	28.25
	8H	26.77	27.25	27.29	27.74	28.31	26.77	27.25	27.29	27.74	28.31

END OF REPORT