

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: P1036871

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036871
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-MID-W-3000K
Description: UHBS Selectable High Bay at MID lumen, 3000K CCT settings with Wide beam
Light Source: -
Ballast/Driver: -

Summary

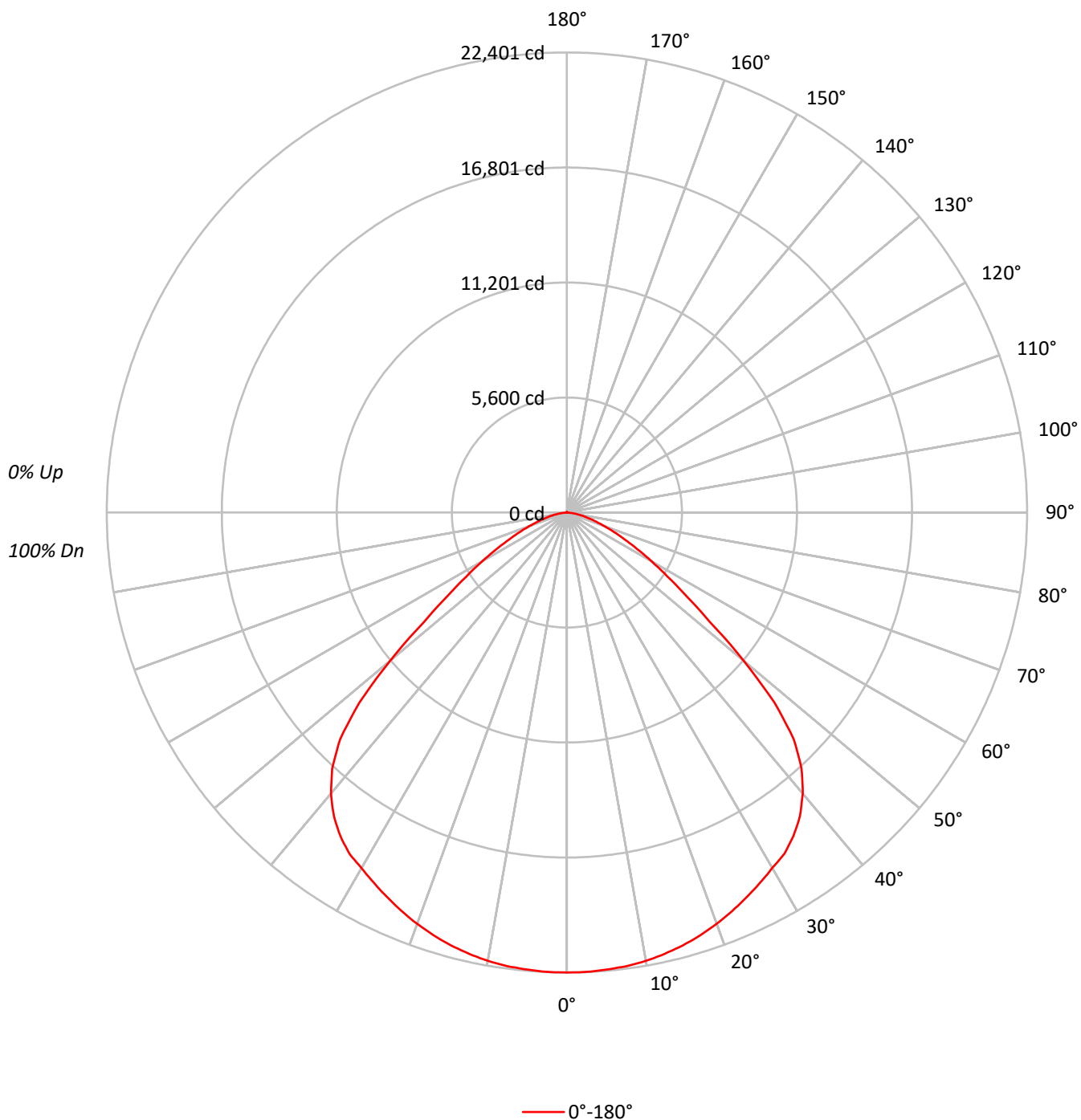
Lumens per Lamp: N/A
Luminaire Lumens: 52765.1 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.41
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 356
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9978
Total Harmonic Distortion (THDi): 3.3895
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°	110521
5°	110648
10°	111075
15°	111446
20°	111924
25°	112587
30°	113912
35°	115832
40°	115053
45°	108933
50°	86205
55°	60997
60°	46951
65°	36223
70°	28039
75°	21661
80°	15843
85°	7546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 108933 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2127.5	4.0
10°-20°	6164.5	11.7
20°-30°	9550.3	18.1
30°-40°	11988.0	22.7
40°-50°	11696.4	22.2
50°-60°	6604.7	12.5
60°-70°	3155.9	6.0
70°-80°	1241.6	2.4
80°-90°	211.2	0.4
90°-100°	0.7	0.0
100°-110°	1.0	0.0
110°-120°	1.2	0.0
120°-130°	2.2	0.0
130°-140°	4.0	0.0
140°-150°	5.4	0.0
150°-160°	5.0	0.0
160°-170°	3.9	0.0
170°-180°	1.5	0.0
0°-30°	17842.3	33.8
0°-40°	29830.3	56.5
0°-60°	48131.4	91.2
0°-90°	52740.1	100.0
90°-120°	2.9	0.0
90°-150°	14.5	0.0
90°-180°	25.0	0.0
0°-180°	52765.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22401	
5°	22341	###
15°	21818	6164
25°	20681	9550
35°	19231	11988
45°	15612	11696
55°	7091	6605
65°	3103	3156
75°	1136	1242
85°	133	206
90°	3	6
95°	0	0
105°	1	1
115°	1	1
125°	3	2
135°	5	4
145°	9	5
155°	10	5
165°	14	4
175°	17	2
180°	18	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	22400.7
2.5°	22389.3
5°	22341.1
7.5°	22277.1
10°	22171.0
12.5°	22009.7
15°	21818.5
17.5°	21588.0
20°	21317.0
22.5°	21007.6
25°	20681.4
27.5°	20342.1
30°	19994.9
32.5°	19702.1
35°	19231.3
37.5°	18636.0
40°	17863.6
42.5°	16907.9
45°	15612.1
47.5°	13700.8
50°	11231.0
52.5°	8797.2
55°	7091.1
57.5°	5804.9
60°	4758.1
62.5°	3863.8
65°	3102.8
67.5°	2471.5
70°	1943.7
72.5°	1504.5
75°	1136.3
77.5°	823.3
80°	557.6
82.5°	327.0
85°	133.3
87.5°	36.8
90°	2.6
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°	1.8
120°	1.8
122.5°	1.8
125°	2.6
127.5°	2.6
130°	3.5
132.5°	4.4
135°	5.3
137.5°	6.1
140°	7.0
142.5°	7.9
145°	8.8
147.5°	9.6
150°	9.6
152.5°	10.5
155°	10.5
157.5°	11.4
160°	12.3
162.5°	13.2
165°	14.0
167.5°	14.9
170°	15.8
172.5°	15.8
175°	16.7
177.5°	16.7
180°	17.5

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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	24.74	26.20	25.11	26.52	26.83	24.74	26.20	25.11	26.52	26.83
	3H	25.51	26.81	25.89	27.14	27.51	25.51	26.81	25.89	27.14	27.51
	4H	25.72	26.94	26.12	27.29	27.67	25.72	26.94	26.12	27.29	27.67
	6H	25.82	26.94	26.24	27.31	27.70	25.82	26.94	26.24	27.31	27.70
	8H	25.83	26.89	26.26	27.28	27.68	25.83	26.89	26.26	27.28	27.68
	12H	25.81	26.83	26.24	27.21	27.64	25.81	26.83	26.24	27.21	27.64
4H	2H	25.02	26.23	25.42	26.58	26.96	25.02	26.23	25.42	26.58	26.96
	3H	25.95	26.94	26.36	27.34	27.75	25.95	26.94	26.36	27.34	27.75
	4H	26.23	27.12	26.66	27.53	27.98	26.23	27.12	26.66	27.53	27.98
	6H	26.40	27.16	26.86	27.61	28.07	26.40	27.16	26.86	27.61	28.07
	8H	26.41	27.13	26.88	27.57	28.04	26.41	27.13	26.88	27.57	28.04
	12H	26.40	27.04	26.89	27.52	27.99	26.40	27.04	26.89	27.52	27.99
8H	4H	26.29	27.01	26.76	27.45	27.92	26.29	27.01	26.76	27.45	27.92
	6H	26.49	27.08	26.99	27.58	28.06	26.49	27.08	26.99	27.58	28.06
	8H	26.53	27.06	27.04	27.57	28.06	26.53	27.06	27.04	27.57	28.06
	12H	26.53	27.00	27.04	27.50	28.07	26.53	27.00	27.04	27.50	28.07
12H	4H	26.27	26.91	26.75	27.39	27.86	26.27	26.91	26.75	27.39	27.86
	6H	26.47	27.00	26.99	27.51	28.00	26.47	27.00	26.99	27.51	28.00
	8H	26.53	27.00	27.04	27.49	28.06	26.53	27.00	27.04	27.49	28.06