

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: P1036853

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-430-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/30/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-4860-L8C5-LOW-N-4000K
Description: UHBS Selectable High Bay at LOW lumen, 4000K CCT settings with Narrow beam
Light Source: -
Ballast/Driver: -

Summary

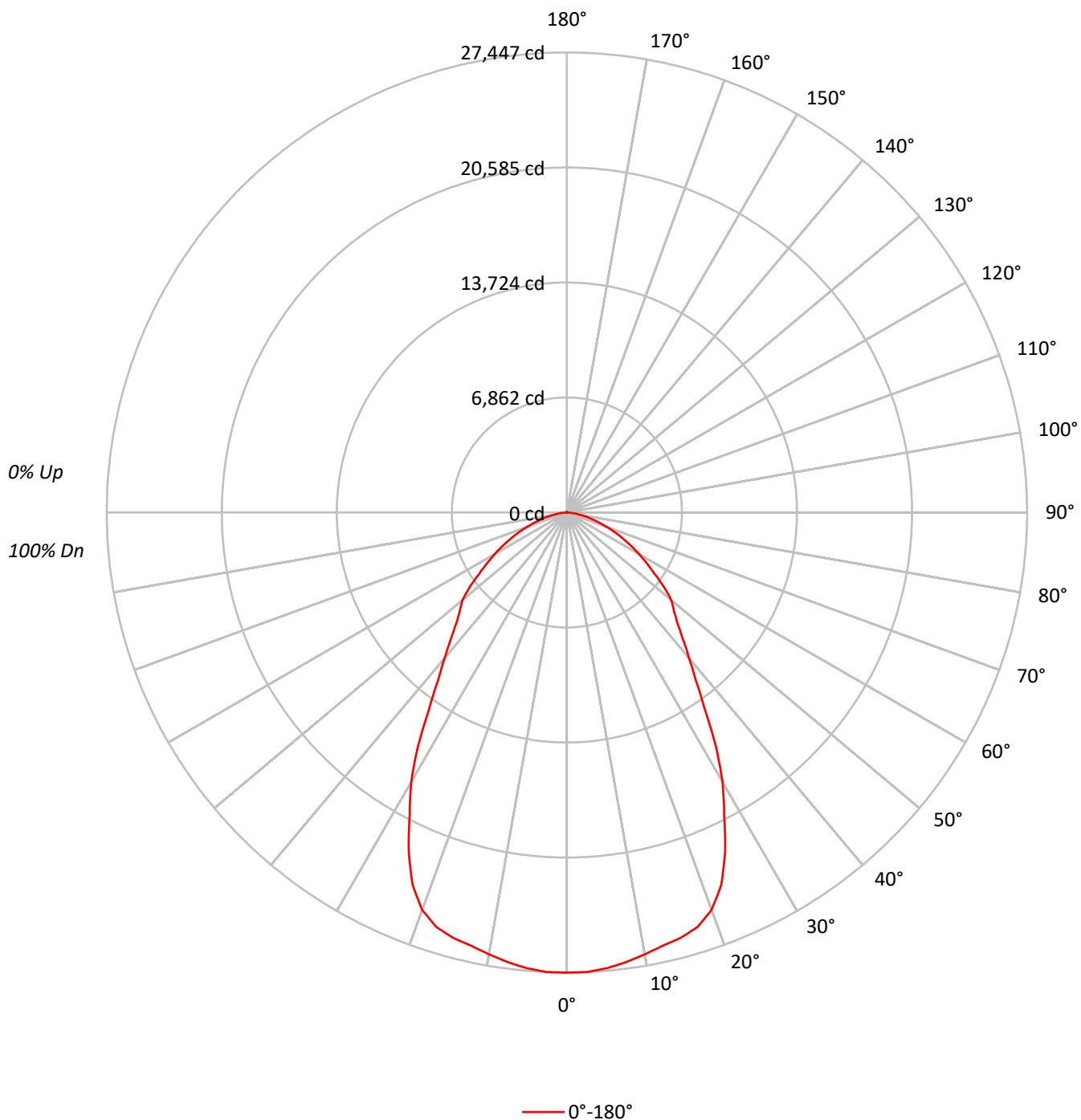
Lumens per Lamp: N/A
Luminaire Lumens: 48093.0 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	104	101	98	100	98	95		96	94	92		93
2	102	95	90	85	100	94	88	84	90	86	82		87	83	80		84
3	95	86	79	73	92	84	78	72	81	76	71		79	74	70		76
4	88	77	70	64	86	76	69	63	74	68	63		71	66	62		69
5	82	70	62	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	46	70	58	51	46	57	50	45		55	49	45		54
8	67	55	47	42	65	54	47	41	53	46	41		51	45	41		50
9	63	51	43	38	61	50	43	38	49	42	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	135418
5°	135163
10°	134102
15°	134164
20°	132462
25°	121578
30°	105710
35°	86308
40°	72970
45°	64911
50°	62350
55°	55021
60°	49149
65°	43195
70°	36781
75°	30072
80°	23580
85°	16796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 64911 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2588.1	5.4
10°-20°	7396.4	15.4
20°-30°	10154.8	21.1
30°-40°	9085.9	18.9
40°-50°	7306.5	15.2
50°-60°	5783.9	12.0
60°-70°	3683.5	7.7
70°-80°	1702.5	3.5
80°-90°	368.0	0.8
90°-100°	0.2	0.0
100°-110°	0.5	0.0
110°-120°	0.8	0.0
120°-130°	1.5	0.0
130°-140°	3.2	0.0
140°-150°	5.1	0.0
150°-160°	5.6	0.0
160°-170°	4.7	0.0
170°-180°	1.9	0.0
0°-30°	20139.4	41.9
0°-40°	29225.3	60.8
0°-60°	42315.6	88.0
0°-90°	48069.6	100.0
90°-120°	1.6	0.0
90°-150°	11.4	0.0
90°-180°	24.0	0.0
0°-180°	48093.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	27447	
5°	27291	###
15°	26266	7396
25°	22333	10155
35°	14330	9086
45°	9303	7306
55°	6396	5784
65°	3700	3684
75°	1578	1703
85°	297	357
90°	2	11
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	4	3
145°	8	5
155°	12	6
165°	17	5
175°	20	2
180°	21	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	27447.0
2.5°	27441.9
5°	27291.0
7.5°	27057.9
10°	26767.2
12.5°	26462.9
15°	26266.2
17.5°	25920.4
20°	25228.7
22.5°	24042.8
25°	22333.1
27.5°	20306.4
30°	18555.1
32.5°	16532.6
35°	14329.6
37.5°	12630.9
40°	11329.7
42.5°	10235.4
45°	9303.0
47.5°	8647.8
50°	8123.1
52.5°	7303.4
55°	6396.4
57.5°	5658.1
60°	4980.8
62.5°	4314.6
65°	3700.0
67.5°	3125.3
70°	2549.7
72.5°	2042.8
75°	1577.5
77.5°	1152.8
80°	829.9
82.5°	560.3
85°	296.7
87.5°	80.5
90°	1.7
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.8
110°	0.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.8
115°	0.8
117.5°	0.8
120°	0.8
122.5°	1.7
125°	1.7
127.5°	1.7
130°	2.5
132.5°	3.4
135°	4.2
137.5°	5.1
140°	5.9
142.5°	6.8
145°	8.5
147.5°	9.3
150°	10.2
152.5°	11.0
155°	11.9
157.5°	13.6
160°	14.4
162.5°	16.1
165°	17.0
167.5°	17.8
170°	18.6
172.5°	19.5
175°	20.3
177.5°	20.3
180°	21.2

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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	24.96	26.39	25.33	26.70	27.02	24.96	26.39	25.33	26.70	27.02
	3H	26.24	27.52	26.62	27.85	28.21	26.24	27.52	26.62	27.85	28.21
	4H	26.63	27.82	27.03	28.17	28.55	26.63	27.82	27.03	28.17	28.55
	6H	26.84	27.95	27.26	28.31	28.71	26.84	27.95	27.26	28.31	28.71
	8H	26.90	27.94	27.33	28.34	28.74	26.90	27.94	27.33	28.34	28.74
	12H	26.92	27.92	27.35	28.30	28.73	26.92	27.92	27.35	28.30	28.73
4H	2H	25.41	26.61	25.81	26.96	27.34	25.41	26.61	25.81	26.96	27.34
	3H	26.87	27.86	27.29	28.26	28.67	26.87	27.86	27.29	28.26	28.67
	4H	27.35	28.24	27.79	28.66	29.10	27.35	28.24	27.79	28.66	29.10
	6H	27.66	28.43	28.12	28.87	29.33	27.66	28.43	28.12	28.87	29.33
	8H	27.74	28.45	28.20	28.90	29.37	27.74	28.45	28.20	28.90	29.37
	12H	27.78	28.42	28.26	28.90	29.37	27.78	28.42	28.26	28.90	29.37
8H	4H	27.50	28.22	27.97	28.66	29.13	27.50	28.22	27.97	28.66	29.13
	6H	27.88	28.47	28.38	28.96	29.44	27.88	28.47	28.38	28.96	29.44
	8H	28.00	28.53	28.52	29.04	29.53	28.00	28.53	28.52	29.04	29.53
	12H	28.09	28.55	28.60	29.05	29.61	28.09	28.55	28.60	29.05	29.61
12H	4H	27.49	28.13	27.98	28.61	29.08	27.49	28.13	27.98	28.61	29.08
	6H	27.88	28.41	28.40	28.92	29.41	27.88	28.41	28.40	28.92	29.41
	8H	28.05	28.51	28.56	29.00	29.57	28.05	28.51	28.56	29.00	29.57