

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: P1036834

Luminaire Tested: UHBS2-4860-L8C5-HI-M-5000K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036834
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-5000K
Description: UHBS Selectable High Bay at HI lumen, 5000K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

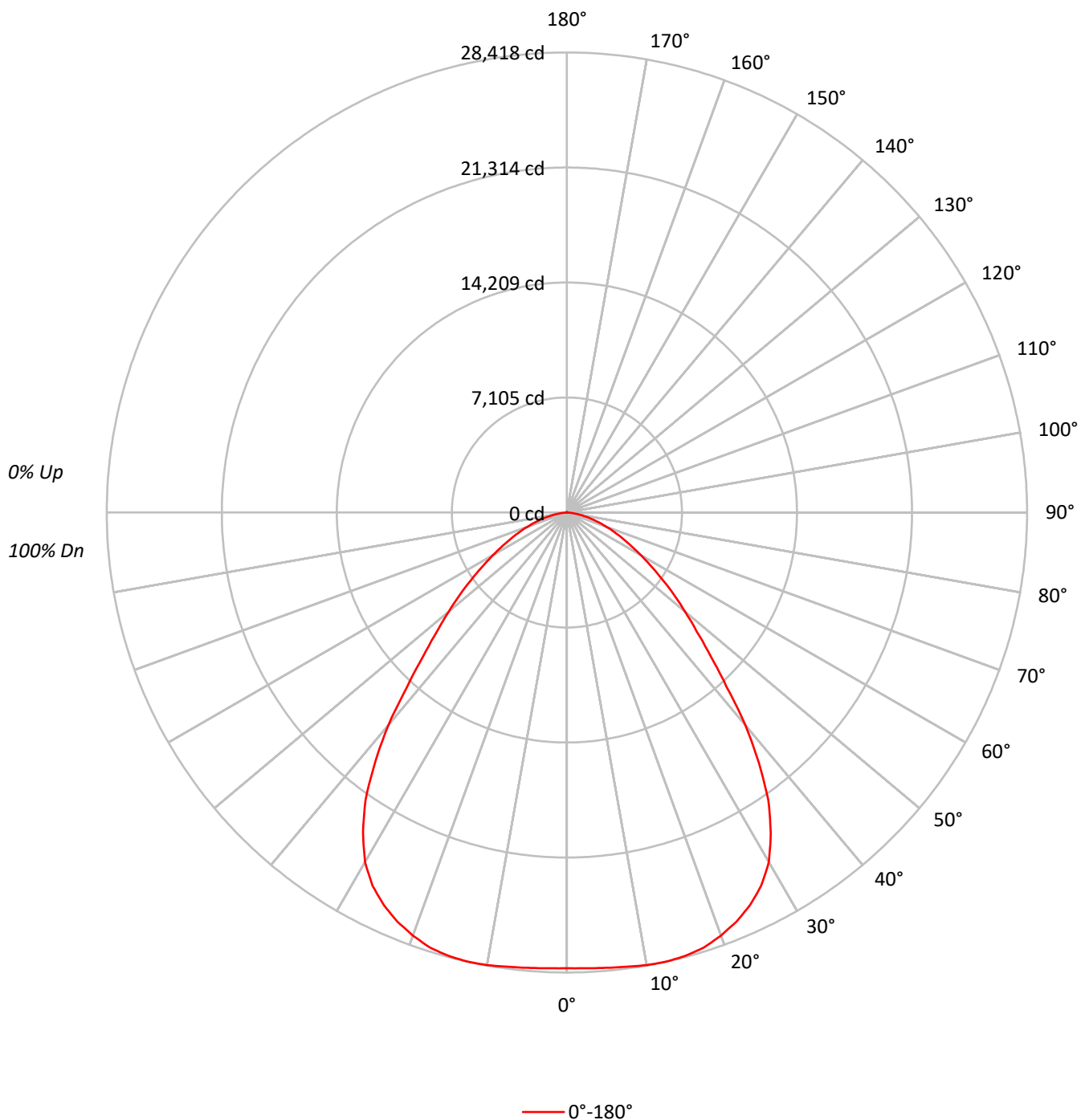
Lumens per Lamp: N/A
Luminaire Lumens: 58586.9 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 379.2
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°	138905
5°	139816
10°	142242
15°	144785
20°	146010
25°	145652
30°	142061
35°	130577
40°	110478
45°	87421
50°	73051
55°	61538
60°	52031
65°	44314
70°	37733
75°	31200
80°	23108
85°	14413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 87421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2699.8	4.6
10°-20°	8002.4	13.7
20°-30°	12282.3	21.0
30°-40°	13350.5	22.8
40°-50°	9856.6	16.8
50°-60°	6468.6	11.0
60°-70°	3808.7	6.5
70°-80°	1746.3	3.0
80°-90°	341.1	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°	4.7	0.0
140°-150°	6.4	0.0
150°-160°	6.5	0.0
160°-170°	5.4	0.0
170°-180°	2.1	0.0
0°-30°	22984.5	39.2
0°-40°	36335.0	62.0
0°-60°	52660.2	89.9
0°-90°	58556.3	99.9
90°-120°	3.3	0.0
90°-150°	16.6	0.0
90°-180°	31.0	0.1
0°-180°	58586.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	28154	
5°	28230	###
15°	28346	8002
25°	26755	12282
35°	21680	13351
45°	12529	9857
55°	7154	6469
65°	3796	3809
75°	1637	1746
85°	255	331
90°	3	10
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	6	5
145°	10	6
155°	14	7
165°	19	5
175°	22	2
180°	23	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	28153.6
2.5°	28178.9
5°	28230.4
7.5°	28302.1
10°	28392.0
12.5°	28418.3
15°	28345.6
17.5°	28168.8
20°	27809.1
22.5°	27354.4
25°	26755.3
27.5°	25988.5
30°	24935.7
32.5°	23433.4
35°	21679.5
37.5°	19461.8
40°	17153.2
42.5°	14588.0
45°	12529.0
47.5°	10870.0
50°	9517.2
52.5°	8304.8
55°	7154.1
57.5°	6149.8
60°	5272.9
62.5°	4492.9
65°	3795.8
67.5°	3182.5
70°	2615.7
72.5°	2107.5
75°	1636.7
77.5°	1171.0
80°	813.3
82.5°	523.3
85°	254.6
87.5°	68.7
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°	5.1
135°	6.1
137.5°	7.1
140°	8.1
142.5°	9.1
145°	10.1
147.5°	12.1
150°	12.1
152.5°	13.1
155°	14.1
157.5°	15.2
160°	17.2
162.5°	18.2
165°	19.2
167.5°	20.2
170°	21.2
172.5°	21.2
175°	22.2
177.5°	23.2
180°	23.2

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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	24.87	26.28	25.24	26.59	26.91	24.87	26.28	25.24	26.59	26.91
	3H	26.01	27.27	26.39	27.60	27.96	26.01	27.27	26.39	27.60	27.96
	4H	26.38	27.55	26.78	27.90	28.28	26.38	27.55	26.78	27.90	28.28
	6H	26.56	27.64	26.98	28.01	28.41	26.56	27.64	26.98	28.01	28.41
	8H	26.60	27.62	27.03	28.02	28.42	26.60	27.62	27.03	28.02	28.42
	12H	26.60	27.58	27.04	27.97	28.40	26.60	27.58	27.04	27.97	28.40
4H	2H	25.26	26.43	25.66	26.78	27.16	25.26	26.43	25.66	26.78	27.16
	3H	26.60	27.56	27.01	27.96	28.37	26.60	27.56	27.01	27.96	28.37
	4H	27.05	27.92	27.49	28.34	28.78	27.05	27.92	27.49	28.34	28.78
	6H	27.32	28.07	27.78	28.52	28.98	27.32	28.07	27.78	28.52	28.98
	8H	27.38	28.08	27.85	28.52	28.99	27.38	28.08	27.85	28.52	28.99
	12H	27.40	28.02	27.88	28.50	28.97	27.40	28.02	27.88	28.50	28.97
8H	4H	27.18	27.88	27.65	28.33	28.80	27.18	27.88	27.65	28.33	28.80
	6H	27.51	28.09	28.02	28.58	29.06	27.51	28.09	28.02	28.58	29.06
	8H	27.61	28.12	28.12	28.63	29.12	27.61	28.12	28.12	28.63	29.12
	12H	27.66	28.11	28.17	28.60	29.17	27.66	28.11	28.17	28.60	29.17
12H	4H	27.17	27.79	27.66	28.27	28.75	27.17	27.79	27.66	28.27	28.75
	6H	27.51	28.02	28.03	28.53	29.03	27.51	28.02	28.03	28.53	29.03
	8H	27.63	28.08	28.15	28.58	29.15	27.63	28.08	28.15	28.58	29.15