

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: P1036831

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036831
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-3000K
Description: UHBS Selectable High Bay at HI lumen, 3000K CCT settings with Medium beam
Light Source: -
Ballast/Driver: -

Summary

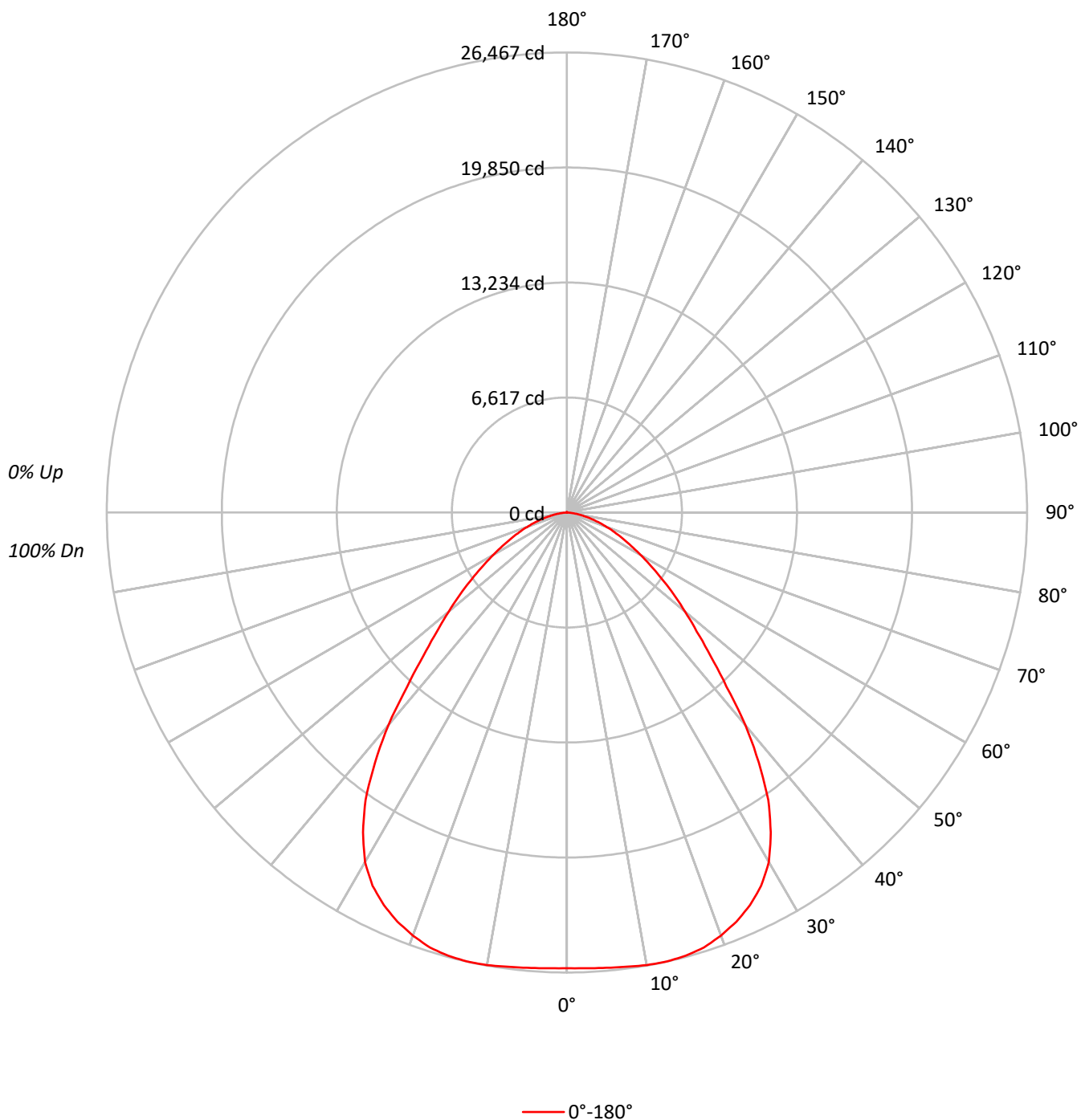
Lumens per Lamp: N/A
Luminaire Lumens: 54565.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	129369
5°	130217
10°	132477
15°	134845
20°	135987
25°	135653
30°	132308
35°	121613
40°	102894
45°	81419
50°	68036
55°	57314
60°	48459
65°	41271
70°	35143
75°	29059
80°	21523
85°	13422

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 81419 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2514.5	4.6
10°-20°	7453.0	13.7
20°-30°	11439.1	21.0
30°-40°	12434.0	22.8
40°-50°	9180.0	16.8
50°-60°	6024.5	11.0
60°-70°	3547.2	6.5
70°-80°	1626.4	3.0
80°-90°	317.7	0.6
90°-100°	1.0	0.0
100°-110°	1.0	0.0
110°-120°	1.0	0.0
120°-130°	2.1	0.0
130°-140°	4.3	0.0
140°-150°	6.0	0.0
150°-160°	6.1	0.0
160°-170°	5.0	0.0
170°-180°	1.9	0.0
0°-30°	21406.6	39.2
0°-40°	33840.6	62.0
0°-60°	49045.1	89.9
0°-90°	54536.5	99.9
90°-120°	3.0	0.0
90°-150°	15.4	0.0
90°-180°	28.0	0.1
0°-180°	54565.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	26221	
5°	26292	###
15°	26400	7453
25°	24919	11439
35°	20191	12434
45°	11669	9180
55°	6663	6025
65°	3535	3547
75°	1524	1626
85°	237	309
90°	3	10
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	6	4
145°	9	6
155°	13	6
165°	18	5
175°	21	2
180°	22	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	26220.9
2.5°	26244.4
5°	26292.4
7.5°	26359.2
10°	26442.9
12.5°	26467.4
15°	26399.6
17.5°	26235.0
20°	25900.0
22.5°	25476.6
25°	24918.6
27.5°	24204.4
30°	23223.9
32.5°	21824.7
35°	20191.2
37.5°	18125.8
40°	15975.7
42.5°	13586.6
45°	11668.9
47.5°	10123.8
50°	8863.9
52.5°	7734.7
55°	6663.0
57.5°	5727.6
60°	4910.9
62.5°	4184.5
65°	3535.2
67.5°	2964.0
70°	2436.2
72.5°	1962.8
75°	1524.4
77.5°	1090.6
80°	757.5
82.5°	487.4
85°	237.1
87.5°	64.0
90°	2.8
92.5°	0.0
95°	0.9
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°	0.9
120°	1.9
122.5°	1.9
125°	1.9
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°	11.3
150°	11.3
152.5°	12.2
155°	13.2
157.5°	14.1
160°	16.0
162.5°	16.9
165°	17.9
167.5°	18.8
170°	19.8
172.5°	19.8
175°	20.7
177.5°	21.6
180°	21.6

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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	26.03	24.99	26.34	26.66	24.62	26.03	24.99	26.34	26.66
	3H	25.77	27.02	26.15	27.35	27.72	25.77	27.02	26.15	27.35	27.72
	4H	26.13	27.30	26.53	27.65	28.04	26.13	27.30	26.53	27.65	28.04
	6H	26.32	27.40	26.73	27.77	28.16	26.32	27.40	26.73	27.77	28.16
	8H	26.35	27.38	26.78	27.77	28.17	26.35	27.38	26.78	27.77	28.17
	12H	26.36	27.34	26.79	27.72	28.15	26.36	27.34	26.79	27.72	28.15
4H	2H	25.01	26.18	25.41	26.53	26.92	25.01	26.18	25.41	26.53	26.92
	3H	26.35	27.31	26.76	27.72	28.12	26.35	27.31	26.76	27.72	28.12
	4H	26.81	27.67	27.24	28.09	28.53	26.81	27.67	27.24	28.09	28.53
	6H	27.08	27.82	27.54	28.27	28.73	27.08	27.82	27.54	28.27	28.73
	8H	27.13	27.83	27.60	28.28	28.75	27.13	27.83	27.60	28.28	28.75
	12H	27.15	27.77	27.64	28.25	28.73	27.15	27.77	27.64	28.25	28.73
8H	4H	26.94	27.63	27.40	28.08	28.55	26.94	27.63	27.40	28.08	28.55
	6H	27.27	27.84	27.77	28.33	28.82	27.27	27.84	27.77	28.33	28.82
	8H	27.36	27.87	27.88	28.38	28.88	27.36	27.87	27.88	28.38	28.88
	12H	27.41	27.86	27.92	28.36	28.93	27.41	27.86	27.92	28.36	28.93
12H	4H	26.92	27.54	27.41	28.02	28.50	26.92	27.54	27.41	28.02	28.50
	6H	27.26	27.77	27.78	28.29	28.78	27.26	27.77	27.78	28.29	28.78
	8H	27.39	27.84	27.90	28.33	28.90	27.39	27.84	27.90	28.33	28.90