

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: P1036837

Luminaire Tested: UHBS2-4860-L8C5-HI-N-3500K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036837
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-HI-N-3500K
Description: UHBS Selectable High Bay at HI lumen, 3500K CCT settings with Narrow beam
Light Source: -
Ballast/Driver: -

Summary

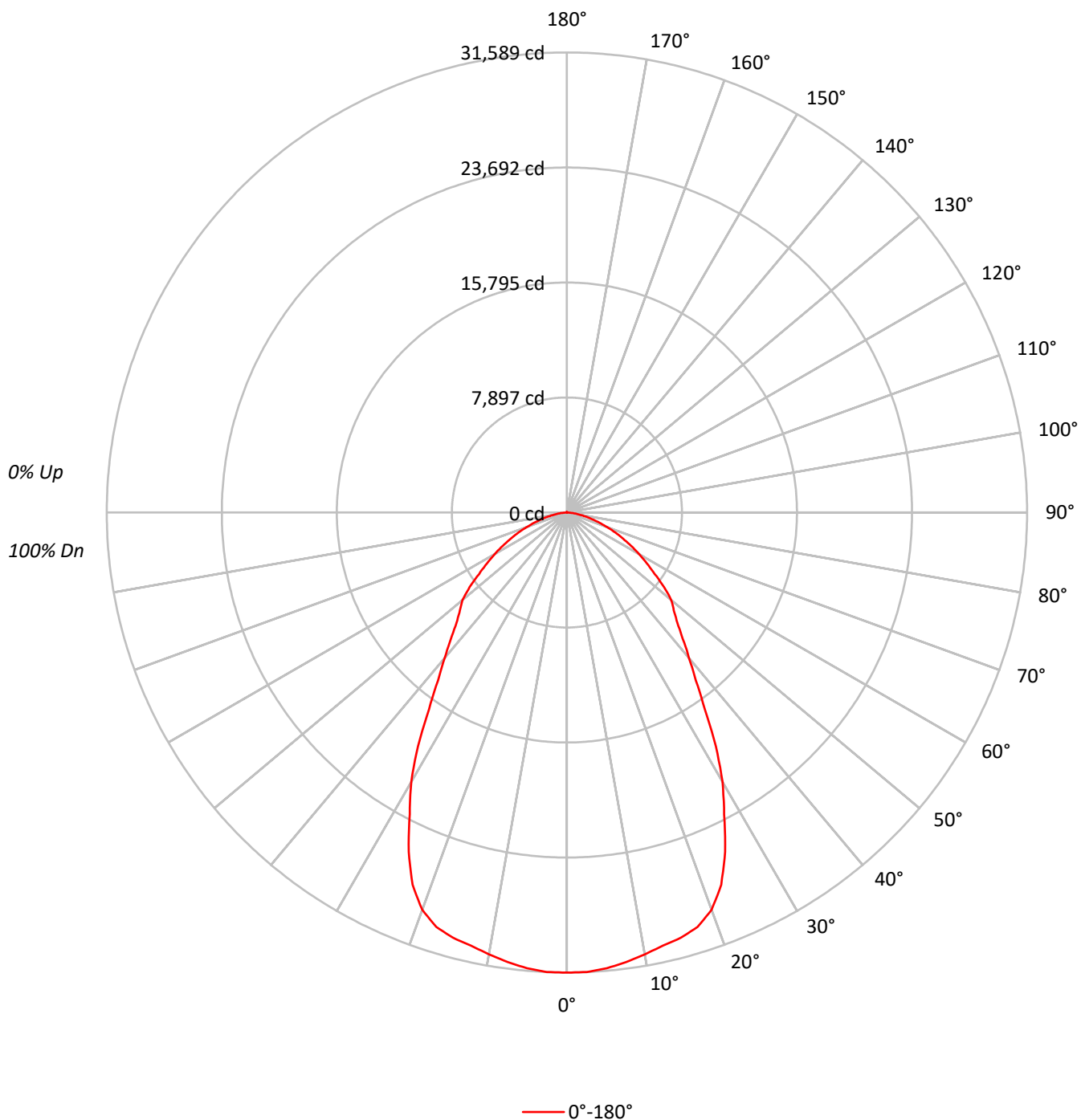
Lumens per Lamp: N/A
Luminaire Lumens: 55350.1 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 381.8
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	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°	155852
5°	155559
10°	154337
15°	154409
20°	152450
25°	139924
30°	121661
35°	99331
40°	83981
45°	74706
50°	71758
55°	63323
60°	56565
65°	49713
70°	42332
75°	34608
80°	27137
85°	19326

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 74706 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2978.6	5.4
10°-20°	8512.5	15.4
20°-30°	11687.1	21.1
30°-40°	10456.9	18.9
40°-50°	8409.0	15.2
50°-60°	6656.6	12.0
60°-70°	4239.4	7.7
70°-80°	1959.4	3.5
80°-90°	423.5	0.8
90°-100°	0.3	0.0
100°-110°	0.7	0.0
110°-120°	1.0	0.0
120°-130°	1.8	0.0
130°-140°	3.7	0.0
140°-150°	5.8	0.0
150°-160°	6.4	0.0
160°-170°	5.4	0.0
170°-180°	2.2	0.0
0°-30°	23178.3	41.9
0°-40°	33635.2	60.8
0°-60°	48700.8	88.0
0°-90°	55323.1	100.0
90°-120°	1.9	0.0
90°-150°	13.3	0.0
90°-180°	27.0	0.0
0°-180°	55350.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	31589	
5°	31409	###
15°	30230	8513
25°	25703	11687
35°	16492	10457
45°	10707	8409
55°	7362	6657
65°	4258	4239
75°	1816	1959
85°	341	410
90°	2	13
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	5	4
145°	10	6
155°	14	6
165°	20	5
175°	23	2
180°	24	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	31588.6
2.5°	31582.8
5°	31409.1
7.5°	31140.8
10°	30806.2
12.5°	30456.0
15°	30229.7
17.5°	29831.6
20°	29035.6
22.5°	27670.8
25°	25703.1
27.5°	23370.5
30°	21355.0
32.5°	19027.3
35°	16491.8
37.5°	14536.8
40°	13039.3
42.5°	11779.9
45°	10706.8
47.5°	9952.7
50°	9348.8
52.5°	8405.4
55°	7361.6
57.5°	6511.9
60°	5732.4
62.5°	4965.6
65°	4258.3
67.5°	3596.9
70°	2934.5
72.5°	2351.1
75°	1815.5
77.5°	1326.8
80°	955.1
82.5°	644.8
85°	341.4
87.5°	92.7
90°	2.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
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°	1.0
122.5°	2.0
125°	2.0
127.5°	2.0
130°	2.9
132.5°	3.9
135°	4.9
137.5°	5.9
140°	6.8
142.5°	7.8
145°	9.8
147.5°	10.7
150°	11.7
152.5°	12.7
155°	13.7
157.5°	15.6
160°	16.6
162.5°	18.5
165°	19.5
167.5°	20.5
170°	21.5
172.5°	22.4
175°	23.4
177.5°	23.4
180°	24.4

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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	25.45	26.88	25.81	27.19	27.51	25.45	26.88	25.81	27.19	27.51
	3H	26.73	28.01	27.11	28.34	28.70	26.73	28.01	27.11	28.34	28.70
	4H	27.11	28.31	27.52	28.66	29.04	27.11	28.31	27.52	28.66	29.04
	6H	27.33	28.43	27.74	28.80	29.20	27.33	28.43	27.74	28.80	29.20
	8H	27.38	28.43	27.81	28.82	29.23	27.38	28.43	27.81	28.82	29.23
	12H	27.40	28.41	27.84	28.79	29.22	27.40	28.41	27.84	28.79	29.22
4H	2H	25.90	27.10	26.30	27.45	27.83	25.90	27.10	26.30	27.45	27.83
	3H	27.36	28.35	27.77	28.75	29.16	27.36	28.35	27.77	28.75	29.16
	4H	27.84	28.73	28.27	29.15	29.59	27.84	28.73	28.27	29.15	29.59
	6H	28.15	28.91	28.61	29.36	29.82	28.15	28.91	28.61	29.36	29.82
	8H	28.23	28.94	28.69	29.39	29.86	28.23	28.94	28.69	29.39	29.86
	12H	28.27	28.91	28.75	29.39	29.86	28.27	28.91	28.75	29.39	29.86
8H	4H	27.99	28.70	28.45	29.15	29.62	27.99	28.70	28.45	29.15	29.62
	6H	28.37	28.96	28.87	29.45	29.93	28.37	28.96	28.87	29.45	29.93
	8H	28.49	29.02	29.01	29.53	30.02	28.49	29.02	29.01	29.53	30.02
	12H	28.58	29.04	29.09	29.53	30.10	28.58	29.04	29.09	29.53	30.10
12H	4H	27.98	28.62	28.47	29.10	29.57	27.98	28.62	28.47	29.10	29.57
	6H	28.37	28.90	28.89	29.41	29.90	28.37	28.90	28.89	29.41	29.90
	8H	28.53	29.00	29.05	29.49	30.06	28.53	29.00	29.05	29.49	30.06