

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: P1036838

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

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036838
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-4000K
Description: UHBS Selectable High Bay at HI lumen, 4000K CCT settings with Narrow beam
Light Source: -
Ballast/Driver: -

Summary

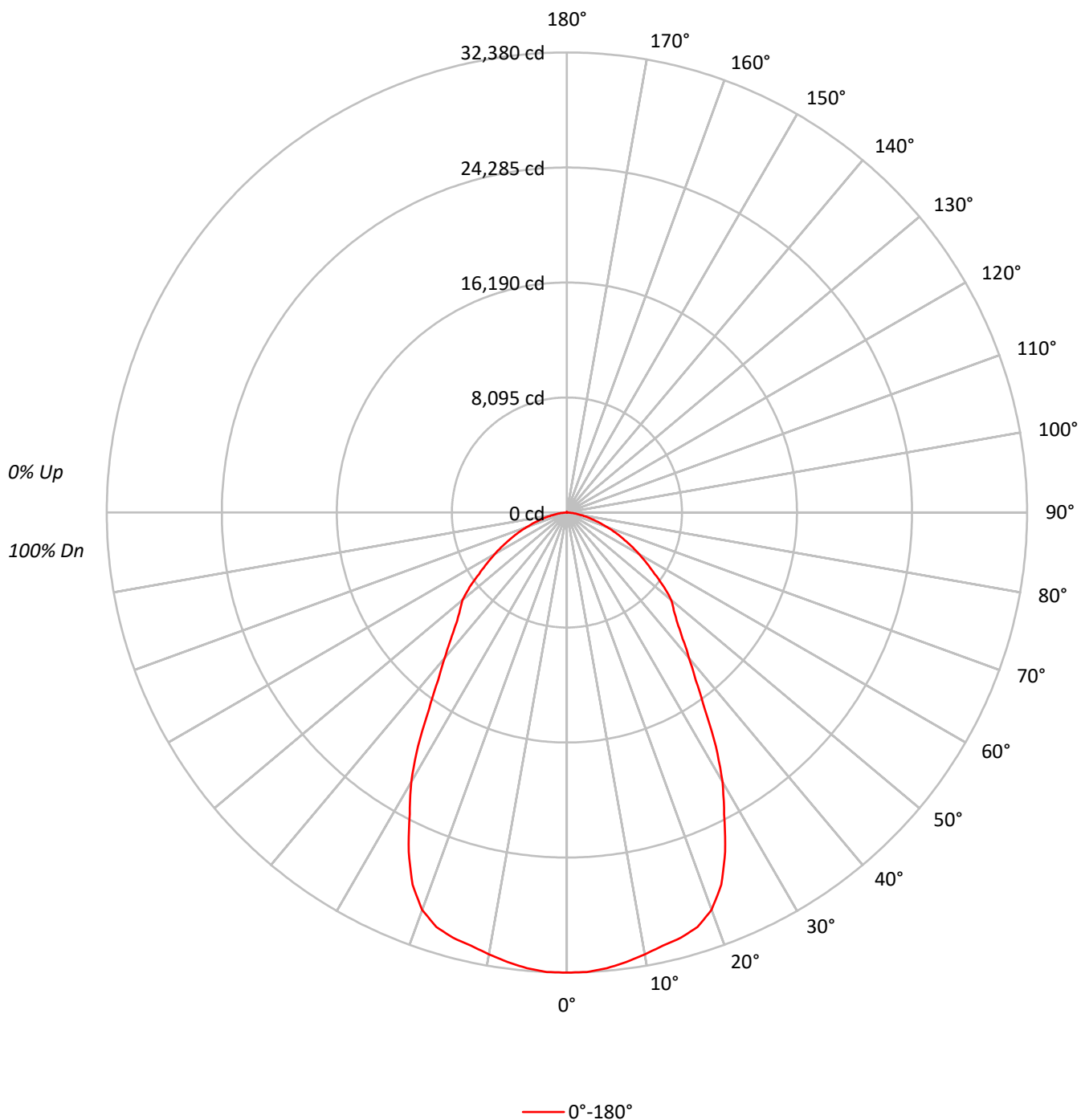
Lumens per Lamp: N/A
Luminaire Lumens: 56737.0 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 377.2
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	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°	159758
5°	159457
10°	158204
15°	158278
20°	156270
25°	143430
30°	124710
35°	101821
40°	86086
45°	76578
50°	73557
55°	64909
60°	57982
65°	50959
70°	43392
75°	35476
80°	27816
85°	19813

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 76578 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3053.3	5.4
10°-20°	8725.9	15.4
20°-30°	11980.0	21.1
30°-40°	10719.0	18.9
40°-50°	8619.7	15.2
50°-60°	6823.4	12.0
60°-70°	4345.6	7.7
70°-80°	2008.5	3.5
80°-90°	434.1	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°	3.8	0.0
140°-150°	6.0	0.0
150°-160°	6.6	0.0
160°-170°	5.6	0.0
170°-180°	2.2	0.0
0°-30°	23759.1	41.9
0°-40°	34478.1	60.8
0°-60°	49921.2	88.0
0°-90°	56709.4	100.0
90°-120°	1.9	0.0
90°-150°	13.5	0.0
90°-180°	28.0	0.0
0°-180°	56737.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	32380	
5°	32196	###
15°	30987	8726
25°	26347	11980
35°	16905	10719
45°	10975	8620
55°	7546	6823
65°	4365	4346
75°	1861	2009
85°	350	421
90°	2	14
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	5	4
145°	10	6
155°	14	7
165°	20	6
175°	24	2
180°	25	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	32380.2
2.5°	32374.2
5°	32196.2
7.5°	31921.2
10°	31578.2
12.5°	31219.2
15°	30987.2
17.5°	30579.2
20°	29763.2
22.5°	28364.2
25°	26347.1
27.5°	23956.1
30°	21890.1
32.5°	19504.1
35°	16905.1
37.5°	14901.1
40°	13366.1
42.5°	12075.1
45°	10975.1
47.5°	10202.1
50°	9583.1
52.5°	8616.0
55°	7546.0
57.5°	6675.0
60°	5876.0
62.5°	5090.0
65°	4365.0
67.5°	3687.0
70°	3008.0
72.5°	2410.0
75°	1861.0
77.5°	1360.0
80°	979.0
82.5°	661.0
85°	350.0
87.5°	95.0
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°	3.0
132.5°	4.0
135°	5.0
137.5°	6.0
140°	7.0
142.5°	8.0
145°	10.0
147.5°	11.0
150°	12.0
152.5°	13.0
155°	14.0
157.5°	16.0
160°	17.0
162.5°	19.0
165°	20.0
167.5°	21.0
170°	22.0
172.5°	23.0
175°	24.0
177.5°	24.0
180°	25.0

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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	25.53	26.96	25.90	27.28	27.59	25.53	26.96	25.90	27.28	27.59
	3H	26.81	28.09	27.19	28.42	28.79	26.81	28.09	27.19	28.42	28.79
	4H	27.20	28.40	27.60	28.75	29.13	27.20	28.40	27.60	28.75	29.13
	6H	27.42	28.52	27.83	28.89	29.28	27.42	28.52	27.83	28.89	29.28
	8H	27.47	28.52	27.90	28.91	29.31	27.47	28.52	27.90	28.91	29.31
	12H	27.49	28.49	27.92	28.88	29.31	27.49	28.49	27.92	28.88	29.31
4H	2H	25.98	27.18	26.39	27.53	27.91	25.98	27.18	26.39	27.53	27.91
	3H	27.45	28.44	27.86	28.84	29.24	27.45	28.44	27.86	28.84	29.24
	4H	27.93	28.81	28.36	29.23	29.67	27.93	28.81	28.36	29.23	29.67
	6H	28.23	29.00	28.69	29.45	29.91	28.23	29.00	28.69	29.45	29.91
	8H	28.31	29.03	28.78	29.48	29.95	28.31	29.03	28.78	29.48	29.95
	12H	28.35	28.99	28.84	29.47	29.95	28.35	28.99	28.84	29.47	29.95
8H	4H	28.07	28.79	28.54	29.24	29.71	28.07	28.79	28.54	29.24	29.71
	6H	28.45	29.04	28.95	29.54	30.02	28.45	29.04	28.95	29.54	30.02
	8H	28.58	29.10	29.10	29.62	30.11	28.58	29.10	29.10	29.62	30.11
	12H	28.66	29.13	29.17	29.62	30.19	28.66	29.13	29.17	29.62	30.19
12H	4H	28.07	28.70	28.55	29.18	29.66	28.07	28.70	28.55	29.18	29.66
	6H	28.45	28.98	28.97	29.50	29.99	28.45	28.98	28.97	29.50	29.99
	8H	28.62	29.08	29.13	29.58	30.15	28.62	29.08	29.13	29.58	30.15