

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: P926842

Luminaire Tested: UHBS2-2436-N-L83065-MID-4000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-3)
Test Lab: INNOVATION CENTER
Issue Date: 12/6/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-N-L83065-MID-4000K
Description: UHBS2 LED High Bay at 4000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

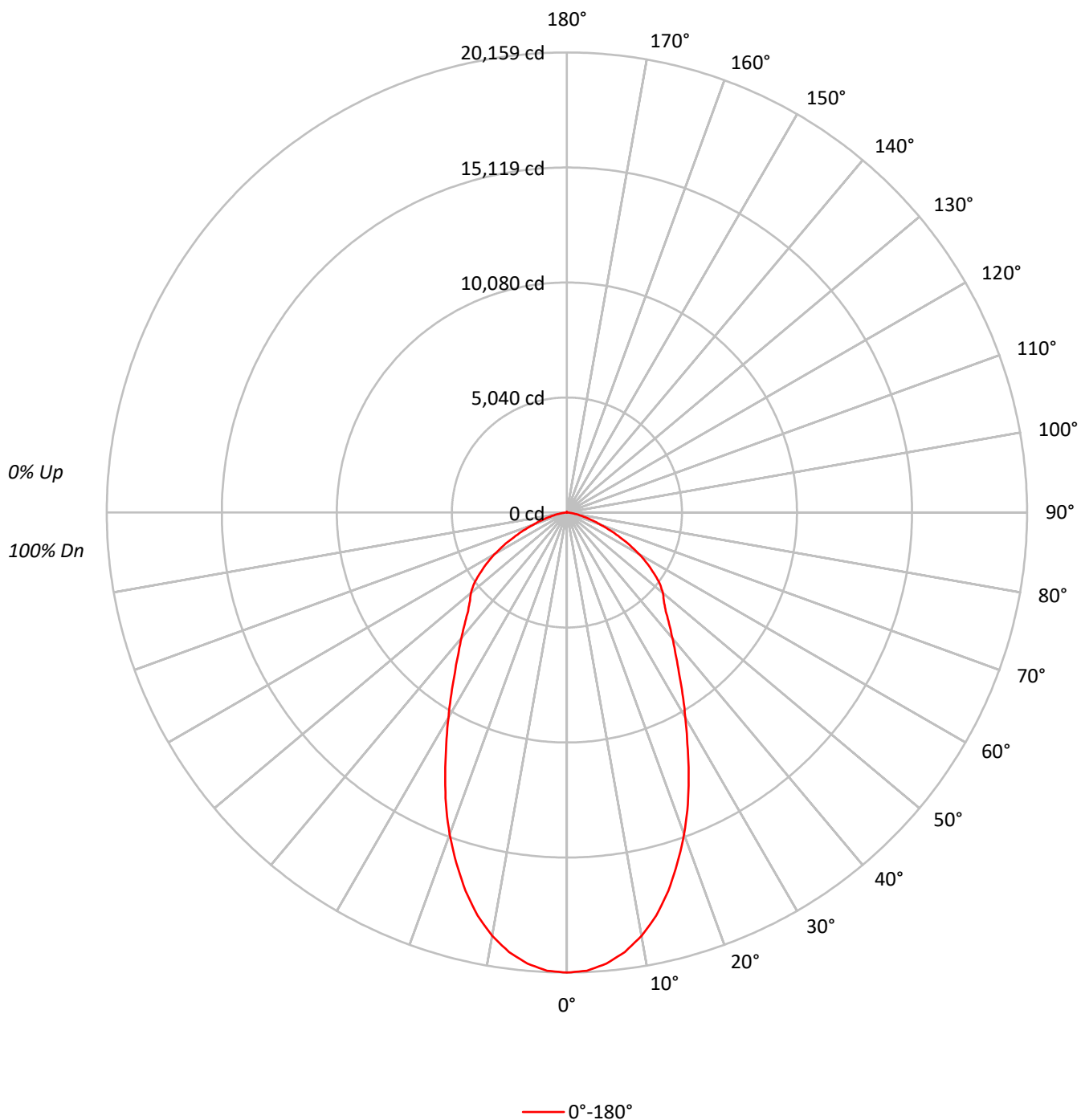
Lumens per Lamp: N/A
Luminaire Lumens: 30488.1 lumens
Efficiency: N/A
Efficacy: 160.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 190
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.15
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	105	101	98	100	98	95		96	94	92		93
2	102	95	89	85	100	93	88	84	90	86	82		87	83	80		84
3	94	85	78	73	92	84	77	72	81	75	71		78	74	70		76
4	88	77	69	63	85	76	69	63	73	67	62		71	66	61		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63
6	76	64	56	50	74	63	55	50	61	55	50		60	54	49		58
7	71	59	51	45	69	58	50	45	56	50	45		55	49	45		54
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47
10	59	47	40	35	58	46	39	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	200109
5°	195851
10°	186306
15°	171389
20°	152584
25°	131447
30°	111933
35°	96261
40°	85366
45°	77582
50°	75084
55°	69800
60°	61261
65°	48912
70°	35583
75°	23675
80°	14039
85°	6518

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 77582 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1862.0	6.1
10°-20°	4782.5	15.7
20°-30°	5789.9	19.0
30°-40°	5389.4	17.7
40°-50°	4793.0	15.7
50°-60°	4142.8	13.6
60°-70°	2560.4	8.4
70°-80°	965.6	3.2
80°-90°	171.8	0.6
90°-100°	4.4	0.0
100°-110°	2.6	0.0
110°-120°	2.5	0.0
120°-130°	3.0	0.0
130°-140°	3.8	0.0
140°-150°	4.0	0.0
150°-160°	4.8	0.0
160°-170°	3.9	0.0
170°-180°	1.6	0.0
0°-30°	12434.5	40.8
0°-40°	17823.8	58.5
0°-60°	26759.7	87.8
0°-90°	30457.5	99.9
90°-120°	9.5	0.0
90°-150°	20.4	0.1
90°-180°	31.0	0.1
0°-180°	30488.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20159	
5°	19841	###
15°	17161	4783
25°	12608	5790
35°	8546	5389
45°	6125	4793
55°	4657	4143
65°	2566	2560
75°	867	966
85°	128	162
90°	15	12
95°	2	2
105°	2	3
115°	2	2
125°	2	3
135°	5	4
145°	7	4
155°	10	5
165°	15	4
175°	17	2
180°	20	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	20158.7
2.5°	20099.6
5°	19841.0
7.5°	19422.3
10°	18836.2
12.5°	18087.5
15°	17161.4
17.5°	16102.4
20°	15013.8
22.5°	13846.4
25°	12607.5
27.5°	11437.7
30°	10376.2
32.5°	9418.1
35°	8546.2
37.5°	7819.7
40°	7186.7
42.5°	6625.2
45°	6125.2
47.5°	5760.7
50°	5489.8
52.5°	5132.7
55°	4657.3
57.5°	4174.6
60°	3664.8
62.5°	3118.0
65°	2566.3
67.5°	2059.0
70°	1591.0
72.5°	1201.9
75°	866.9
77.5°	605.9
80°	396.5
82.5°	243.8
85°	128.1
87.5°	54.2
90°	14.8
92.5°	2.5
95°	2.5
97.5°	2.5
100°	2.5
102.5°	2.5
105°	2.5
107.5°	2.5
110°	2.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.5
115°	2.5
117.5°	2.5
120°	2.5
122.5°	2.5
125°	2.5
127.5°	4.9
130°	4.9
132.5°	4.9
135°	4.9
137.5°	4.9
140°	4.9
142.5°	4.9
145°	7.4
147.5°	7.4
150°	7.4
152.5°	9.9
155°	9.9
157.5°	12.3
160°	12.3
162.5°	12.3
165°	14.8
167.5°	14.8
170°	14.8
172.5°	17.2
175°	17.2
177.5°	17.2
180°	19.7

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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	26.14	27.60	26.51	27.91	28.23	26.14	27.60	26.51	27.91	28.23
	3H	27.06	28.36	27.44	28.69	29.06	27.06	28.36	27.44	28.69	29.06
	4H	27.25	28.47	27.65	28.82	29.20	27.25	28.47	27.65	28.82	29.20
	6H	27.31	28.43	27.72	28.80	29.19	27.31	28.43	27.72	28.80	29.19
	8H	27.30	28.36	27.73	28.76	29.16	27.30	28.36	27.73	28.76	29.16
	12H	27.28	28.30	27.71	28.68	29.11	27.28	28.30	27.71	28.68	29.11
4H	2H	26.49	27.70	26.89	28.06	28.44	26.49	27.70	26.89	28.06	28.44
	3H	27.53	28.54	27.95	28.94	29.35	27.53	28.54	27.95	28.94	29.35
	4H	27.78	28.68	28.21	29.09	29.54	27.78	28.68	28.21	29.09	29.54
	6H	27.88	28.66	28.34	29.10	29.57	27.88	28.66	28.34	29.10	29.57
	8H	27.88	28.60	28.34	29.05	29.52	27.88	28.60	28.34	29.05	29.52
	12H	27.86	28.51	28.35	28.99	29.46	27.86	28.51	28.35	28.99	29.46
8H	4H	27.81	28.54	28.28	28.98	29.46	27.81	28.54	28.28	28.98	29.46
	6H	27.94	28.53	28.44	29.03	29.51	27.94	28.53	28.44	29.03	29.51
	8H	27.94	28.48	28.46	28.99	29.48	27.94	28.48	28.46	28.99	29.48
	12H	27.94	28.41	28.46	28.91	29.48	27.94	28.41	28.46	28.91	29.48
12H	4H	27.79	28.43	28.27	28.91	29.39	27.79	28.43	28.27	28.91	29.39
	6H	27.90	28.44	28.42	28.95	29.44	27.90	28.44	28.42	28.95	29.44
	8H	27.93	28.40	28.45	28.90	29.47	27.93	28.40	28.45	28.90	29.47