

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: P926840

Luminaire Tested: UHBS2-2436-N-L83065-MID-3000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926840
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-3000K
Description: UHBS2 LED High Bay at 3000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

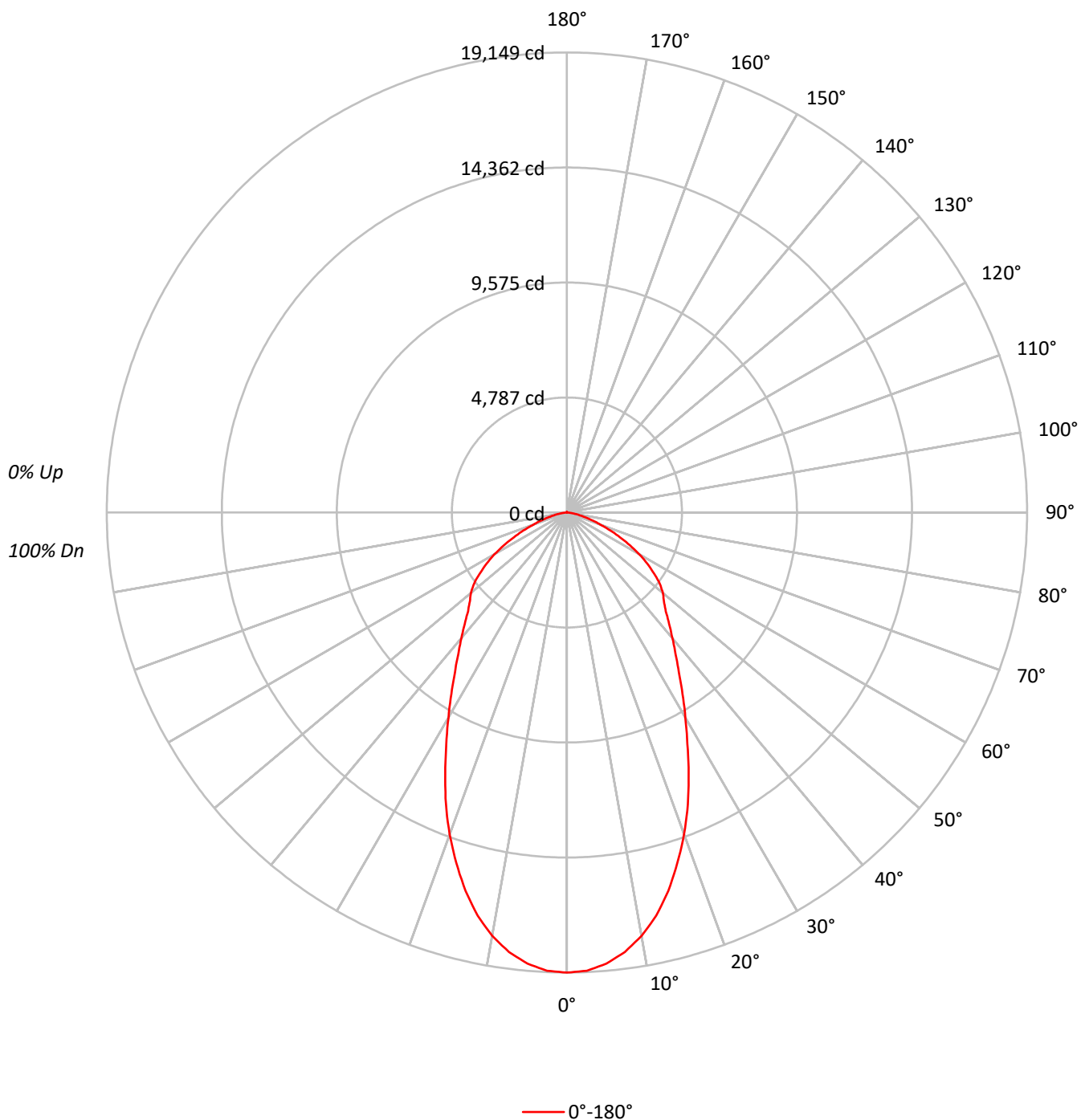
Lumens per Lamp: N/A
Luminaire Lumens: 28960.9 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 194.6
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

TEST NUMBER: P926840

CATALOG NUMBER: UHBS2-2436-N-L83065-MID-3000K

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°	190087
5°	186042
10°	176975
15°	162805
20°	144942
25°	124864
30°	106327
35°	91440
40°	81091
45°	73696
50°	71323
55°	66305
60°	58192
65°	46463
70°	33800
75°	22489
80°	13338
85°	6192

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 73696 cd/sqm

TEST NUMBER: P926840

CATALOG NUMBER: UHBS2-2436-N-L83065-MID-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1768.8	6.1
10°-20°	4543.0	15.7
20°-30°	5499.9	19.0
30°-40°	5119.5	17.7
40°-50°	4552.9	15.7
50°-60°	3935.3	13.6
60°-70°	2432.2	8.4
70°-80°	917.2	3.2
80°-90°	163.2	0.6
90°-100°	4.1	0.0
100°-110°	2.4	0.0
110°-120°	2.3	0.0
120°-130°	2.8	0.0
130°-140°	3.6	0.0
140°-150°	3.8	0.0
150°-160°	4.5	0.0
160°-170°	3.7	0.0
170°-180°	1.5	0.0
0°-30°	11811.7	40.8
0°-40°	16931.1	58.5
0°-60°	25419.4	87.8
0°-90°	28932.0	99.9
90°-120°	8.8	0.0
90°-150°	19.1	0.1
90°-180°	29.0	0.1
0°-180°	28960.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19149	
5°	18847	###
15°	16302	4543
25°	11976	5500
35°	8118	5119
45°	5818	4553
55°	4424	3935
65°	2438	2432
75°	824	917
85°	122	154
90°	14	11
95°	2	2
105°	2	2
115°	2	2
125°	2	3
135°	5	4
145°	7	4
155°	9	5
165°	14	4
175°	16	2
180°	19	

TEST NUMBER: P926840

CATALOG NUMBER: UHBS2-2436-N-L83065-MID-3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	19149.1
2.5°	19092.9
5°	18847.3
7.5°	18449.6
10°	17892.8
12.5°	17181.5
15°	16301.9
17.5°	15295.9
20°	14261.8
22.5°	13152.9
25°	11976.1
27.5°	10864.8
30°	9856.5
32.5°	8946.4
35°	8118.2
37.5°	7428.0
40°	6826.8
42.5°	6293.3
45°	5818.4
47.5°	5472.2
50°	5214.8
52.5°	4875.6
55°	4424.1
57.5°	3965.5
60°	3481.2
62.5°	2961.9
65°	2437.8
67.5°	1955.9
70°	1511.3
72.5°	1141.7
75°	823.5
77.5°	575.5
80°	376.7
82.5°	231.6
85°	121.7
87.5°	51.5
90°	14.0
92.5°	2.3
95°	2.3
97.5°	2.3
100°	2.3
102.5°	2.3
105°	2.3
107.5°	2.3
110°	2.3



TEST NUMBER: P926840

CATALOG NUMBER: UHBS2-2436-N-L83065-MID-3000K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.3
115°	2.3
117.5°	2.3
120°	2.3
122.5°	2.3
125°	2.3
127.5°	4.7
130°	4.7
132.5°	4.7
135°	4.7
137.5°	4.7
140°	4.7
142.5°	4.7
145°	7.0
147.5°	7.0
150°	7.0
152.5°	9.4
155°	9.4
157.5°	11.7
160°	11.7
162.5°	11.7
165°	14.0
167.5°	14.0
170°	14.0
172.5°	16.4
175°	16.4
177.5°	16.4
180°	18.7

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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	25.96	27.42	26.33	27.73	28.05	25.96	27.42	26.33	27.73	28.05
	3H	26.88	28.18	27.26	28.51	28.88	26.88	28.18	27.26	28.51	28.88
	4H	27.07	28.29	27.47	28.64	29.02	27.07	28.29	27.47	28.64	29.02
	6H	27.13	28.25	27.54	28.62	29.02	27.13	28.25	27.54	28.62	29.02
	8H	27.12	28.19	27.55	28.58	28.98	27.12	28.19	27.55	28.58	28.98
	12H	27.10	28.12	27.53	28.50	28.93	27.10	28.12	27.53	28.50	28.93
4H	2H	26.31	27.53	26.71	27.88	28.26	26.31	27.53	26.71	27.88	28.26
	3H	27.36	28.36	27.77	28.76	29.17	27.36	28.36	27.77	28.76	29.17
	4H	27.60	28.50	28.03	28.92	29.36	27.60	28.50	28.03	28.92	29.36
	6H	27.70	28.48	28.16	28.93	29.39	27.70	28.48	28.16	28.93	29.39
	8H	27.70	28.42	28.16	28.87	29.34	27.70	28.42	28.16	28.87	29.34
	12H	27.68	28.33	28.17	28.81	29.28	27.68	28.33	28.17	28.81	29.28
8H	4H	27.63	28.36	28.10	28.81	29.28	27.63	28.36	28.10	28.81	29.28
	6H	27.76	28.35	28.26	28.85	29.33	27.76	28.35	28.26	28.85	29.33
	8H	27.76	28.30	28.28	28.81	29.30	27.76	28.30	28.28	28.81	29.30
	12H	27.76	28.23	28.28	28.73	29.30	27.76	28.23	28.28	28.73	29.30
12H	4H	27.61	28.25	28.09	28.74	29.21	27.61	28.25	28.09	28.74	29.21
	6H	27.72	28.26	28.24	28.77	29.26	27.72	28.26	28.24	28.77	29.26
	8H	27.76	28.23	28.27	28.72	29.29	27.76	28.23	28.27	28.72	29.29