

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: PrentaLux

Report Number: P1221492

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (3500K_L24_Wide_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221492
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (3500K_L24_Wide_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, WHITE SHADE, WIDE DISTRIBUTION.
LIGHT LEVEL 1 - 24,000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

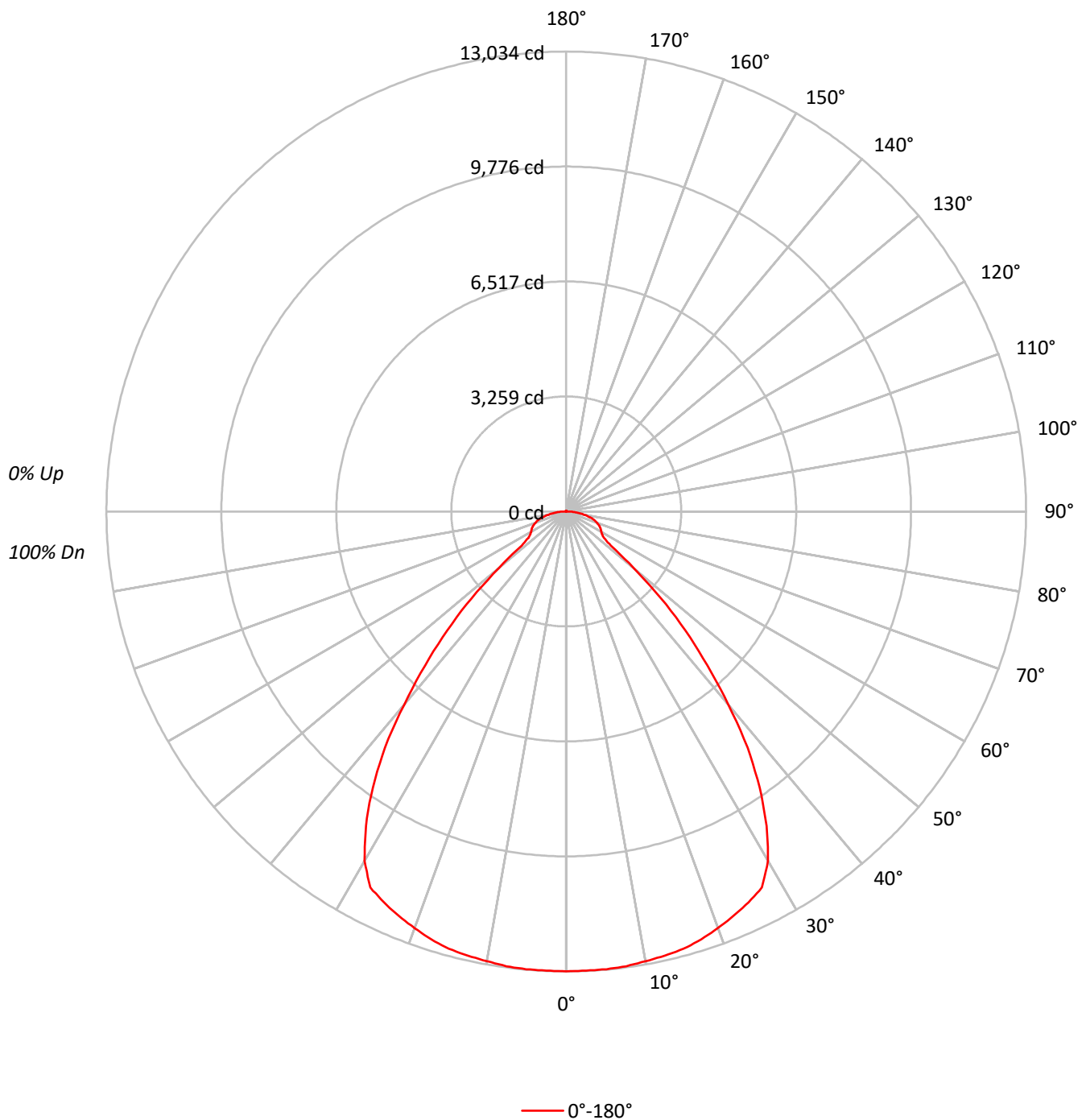
Lumens per Lamp: N/A
Luminaire Lumens: 23508.3 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

Input Watts (W): 154.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78					78			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62					62			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	61	57	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	51	45	41	50	45	41	49	44	40	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	75160
5°	71715
10°	68702
15°	66221
20°	63575
25°	61120
30°	56916
35°	47744
40°	36092
45°	24590
50°	13152
55°	7135
60°	6584
65°	6402
70°	5978
75°	5190
80°	3865
85°	2106

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24590 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1240.6	5.3
10°-20°	3623.1	15.4
20°-30°	5616.2	23.9
30°-40°	5894.2	25.1
40°-50°	3659.0	15.6
50°-60°	1315.8	5.6
60°-70°	1040.4	4.4
70°-80°	770.9	3.3
80°-90°	269.6	1.1
90°-100°	8.1	0.0
100°-110°	8.6	0.0
110°-120°	9.0	0.0
120°-130°	9.7	0.0
130°-140°	10.9	0.0
140°-150°	13.0	0.1
150°-160°	11.3	0.0
160°-170°	5.9	0.0
170°-180°	2.0	0.0
0°-30°	10480.0	44.6
0°-40°	16374.2	69.7
0°-60°	21349.0	90.8
0°-90°	23429.9	99.7
90°-120°	25.7	0.1
90°-150°	59.3	0.3
90°-180°	78.0	0.3
0°-180°	23508.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13034	
5°	13024	###
15°	12832	3623
25°	12227	5616
35°	9561	5894
45°	4780	3659
55°	1303	1316
65°	1058	1040
75°	742	771
85°	245	253
90°	7	19
95°	7	6
105°	8	9
115°	9	9
125°	11	10
135°	14	11
145°	21	13
155°	25	11
165°	21	6
175°	21	2
180°	23	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	13034.3
2.5°	13022.8
5°	13023.6
7.5°	12998.9
10°	12943.7
12.5°	12895.1
15°	12831.6
17.5°	12718.8
20°	12566.3
22.5°	12404.9
25°	12226.9
27.5°	12017.6
30°	11435.1
32.5°	10569.2
35°	9560.7
37.5°	8441.8
40°	7148.3
42.5°	5916.5
45°	4779.5
47.5°	3636.8
50°	2488.2
52.5°	1584.4
55°	1302.6
57.5°	1203.7
60°	1149.4
62.5°	1105.7
65°	1057.9
67.5°	997.8
70°	924.4
72.5°	839.6
75°	741.5
77.5°	626.2
80°	502.6
82.5°	374.9
85°	244.7
87.5°	116.2
90°	7.4
92.5°	7.4
95°	7.4
97.5°	7.4
100°	7.4
102.5°	8.2
105°	8.2
107.5°	8.2
110°	8.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	9.1
115°	9.1
117.5°	9.1
120°	9.9
122.5°	9.9
125°	10.7
127.5°	11.5
130°	12.4
132.5°	13.2
135°	14.0
137.5°	14.8
140°	16.5
142.5°	19.0
145°	20.6
147.5°	23.1
150°	25.5
152.5°	25.5
155°	24.7
157.5°	23.1
160°	21.4
162.5°	20.6
165°	20.6
167.5°	20.6
170°	20.6
172.5°	20.6
175°	20.6
177.5°	22.2
180°	23.1

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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	14.73	16.03	15.10	16.35	16.67	14.73	16.03	15.10	16.35	16.67
	3H	16.94	18.10	17.33	18.44	18.81	16.94	18.10	17.33	18.44	18.81
	4H	17.79	18.87	18.20	19.23	19.62	17.79	18.87	18.20	19.23	19.62
	6H	18.37	19.37	18.79	19.74	20.15	18.37	19.37	18.79	19.74	20.15
	8H	18.53	19.47	18.96	19.87	20.29	18.53	19.47	18.96	19.87	20.29
	12H	18.61	19.51	19.05	19.90	20.34	18.61	19.51	19.05	19.90	20.34
4H	2H	15.37	16.45	15.78	16.81	17.20	15.37	16.45	15.78	16.81	17.20
	3H	17.76	18.66	18.18	19.07	19.48	17.76	18.66	18.18	19.07	19.48
	4H	18.71	19.52	19.16	19.94	20.39	18.71	19.52	19.16	19.94	20.39
	6H	19.40	20.10	19.87	20.55	21.02	19.40	20.10	19.87	20.55	21.02
	8H	19.59	20.24	20.07	20.70	21.18	19.59	20.24	20.07	20.70	21.18
	12H	19.70	20.28	20.20	20.77	21.25	19.70	20.28	20.20	20.77	21.25
8H	4H	18.99	19.64	19.46	20.09	20.57	18.99	19.64	19.46	20.09	20.57
	6H	19.77	20.31	20.28	20.81	21.30	19.77	20.31	20.28	20.81	21.30
	8H	20.03	20.51	20.55	21.03	21.53	20.03	20.51	20.55	21.03	21.53
	12H	20.20	20.62	20.72	21.12	21.70	20.20	20.62	20.72	21.12	21.70
12H	4H	19.00	19.58	19.49	20.07	20.55	19.00	19.58	19.49	20.07	20.55
	6H	19.80	20.28	20.33	20.80	21.30	19.80	20.28	20.33	20.80	21.30
	8H	20.10	20.53	20.62	21.03	21.61	20.10	20.53	20.62	21.03	21.61