

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: P1221509

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (5000K_L24_Narrow_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221509
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-28)
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 (5000K_L24_Narrow_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, WHITE SHADE, NARROW DISTRIBUTION.
LIGHT LEVEL 1 - 24,000 LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

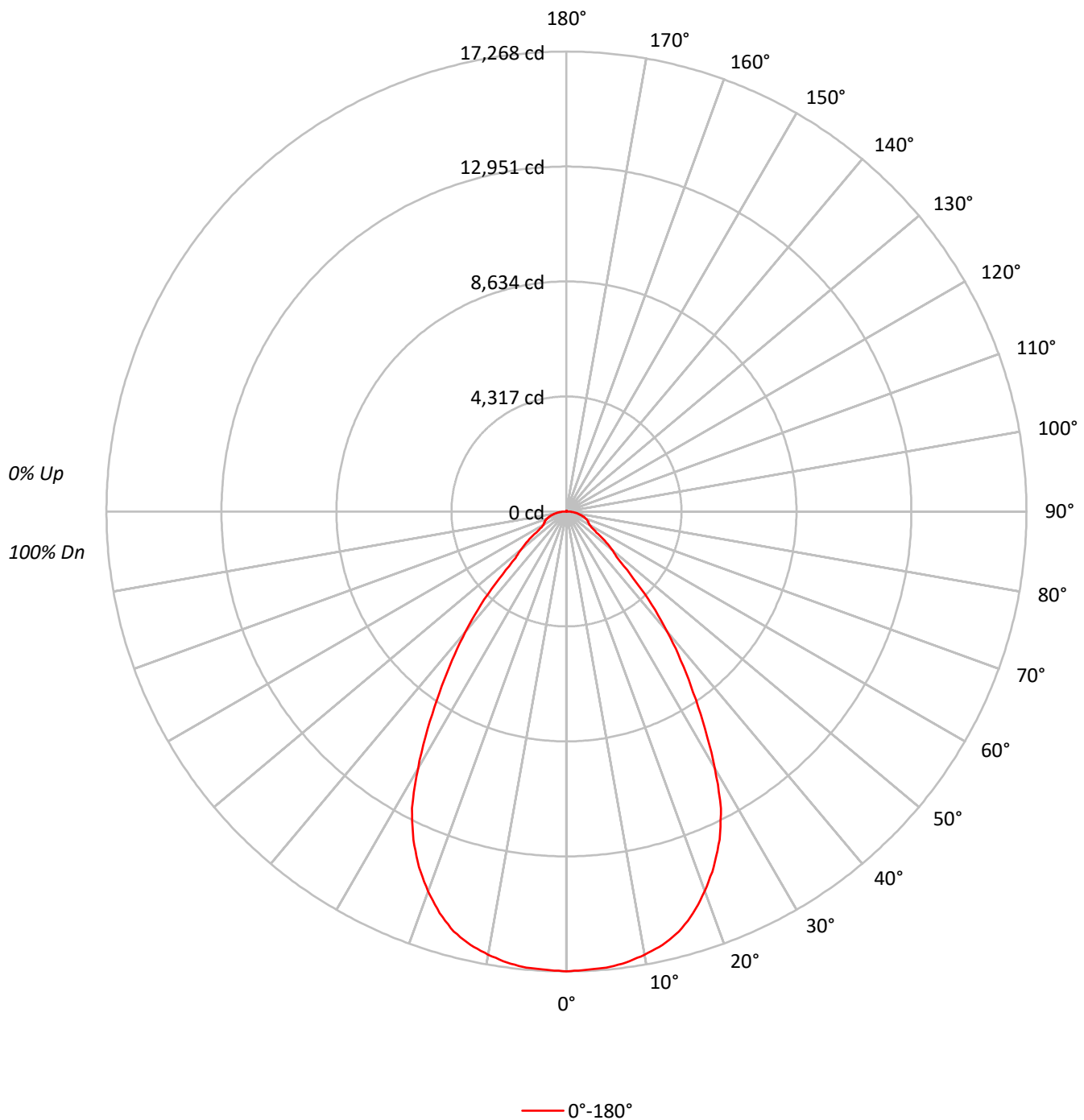
Lumens per Lamp: N/A
Luminaire Lumens: 23570.3 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

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

TEST NUMBER: P1221509

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (5000K_L24_Narrow_120V)

Luminous Intensity Polar Plot





TEST NUMBER: P1221509

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (5000K_L24_Narrow_120V)

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	30	10	50	30	10	50	30	10		
RCR																									
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100							
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89							
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80							
3	98	90	83	79	95	88	82	78	85	80	76	83	79	75	80	77	74	72							
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65							
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60							
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	54							
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50							
8	72	60	53	49	70	60	53	49	59	53	48	57	52	48	56	51	48	46							
9	68	56	50	45	66	56	49	45	55	49	45	54	48	45	53	48	44	43							
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40							

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	99573
5°	94691
10°	89704
15°	84289
20°	76767
25°	67972
30°	55501
35°	41433
40°	29746
45°	18293
50°	11744
55°	7541
60°	5727
65°	5416
70°	4951
75°	4223
80°	3243
85°	1884

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18293 cd/sqm

TEST NUMBER: P1221509

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (5000K_L24_Narrow_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1631.9	6.9
10°-20°	4571.6	19.4
20°-30°	6169.9	26.2
30°-40°	5205.3	22.1
40°-50°	2852.9	12.1
50°-60°	1319.7	5.6
60°-70°	880.4	3.7
70°-80°	633.8	2.7
80°-90°	235.0	1.0
90°-100°	6.4	0.0
100°-110°	7.1	0.0
110°-120°	7.4	0.0
120°-130°	7.9	0.0
130°-140°	9.7	0.0
140°-150°	12.5	0.1
150°-160°	10.6	0.0
160°-170°	5.9	0.0
170°-180°	2.1	0.0
0°-30°	12373.5	52.5
0°-40°	17578.8	74.6
0°-60°	21751.5	92.3
0°-90°	23500.7	99.7
90°-120°	21.0	0.1
90°-150°	50.9	0.2
90°-180°	70.0	0.3
0°-180°	23570.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17268	
5°	17196	###
15°	16332	4572
25°	13598	6170
35°	8297	5205
45°	3556	2853
55°	1377	1320
65°	895	880
75°	603	634
85°	219	220
90°	6	17
95°	6	5
105°	7	7
115°	8	7
125°	8	8
135°	12	10
145°	20	12
155°	23	11
165°	21	6
175°	23	2
180°	25	

TEST NUMBER: P1221509

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (5000K_L24_Narrow_120V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	17268.0
2.5°	17228.3
5°	17196.2
7.5°	17084.6
10°	16900.4
12.5°	16670.5
15°	16332.5
17.5°	15819.5
20°	15173.8
22.5°	14458.8
25°	13597.6
27.5°	12560.6
30°	11150.9
32.5°	9689.6
35°	8296.8
37.5°	7047.7
40°	5891.5
42.5°	4752.3
45°	3555.5
47.5°	2586.1
50°	2221.9
52.5°	1823.8
55°	1376.7
57.5°	1122.4
60°	999.8
62.5°	940.6
65°	895.0
67.5°	835.0
70°	765.7
72.5°	689.6
75°	603.4
77.5°	514.7
80°	421.7
82.5°	323.7
85°	218.9
87.5°	107.3
90°	5.9
92.5°	5.9
95°	5.9
97.5°	5.9
100°	5.9
102.5°	6.8
105°	6.8
107.5°	6.8
110°	6.8

TEST NUMBER: P1221509

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (5000K_L24_Narrow_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	7.6
115°	7.6
117.5°	7.6
120°	7.6
122.5°	8.5
125°	8.5
127.5°	9.3
130°	10.1
132.5°	11.0
135°	11.8
137.5°	14.4
140°	16.1
142.5°	17.7
145°	20.3
147.5°	22.0
150°	23.7
152.5°	23.7
155°	22.8
157.5°	22.0
160°	21.1
162.5°	20.3
165°	21.1
167.5°	21.1
170°	22.0
172.5°	22.0
175°	22.8
177.5°	23.7
180°	25.4

TEST NUMBER: P1221509

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (5000K_L24_Narrow_120V)

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	14.28	15.52	14.65	15.84	16.16	14.28	15.52	14.65	15.84	16.16
	3H	16.14	17.24	16.52	17.58	17.95	16.14	17.24	16.52	17.58	17.95
	4H	16.86	17.89	17.27	18.24	18.64	16.86	17.89	17.27	18.24	18.64
	6H	17.38	18.32	17.80	18.70	19.10	17.38	18.32	17.80	18.70	19.10
	8H	17.54	18.43	17.97	18.83	19.24	17.54	18.43	17.97	18.83	19.24
	12H	17.62	18.47	18.06	18.86	19.30	17.62	18.47	18.06	18.86	19.30
4H	2H	14.78	15.80	15.19	16.16	16.55	14.78	15.80	15.19	16.16	16.55
	3H	16.84	17.69	17.26	18.10	18.51	16.84	17.69	17.26	18.10	18.51
	4H	17.68	18.44	18.12	18.86	19.32	17.68	18.44	18.12	18.86	19.32
	6H	18.32	18.97	18.79	19.43	19.90	18.32	18.97	18.79	19.43	19.90
	8H	18.51	19.12	18.98	19.58	20.05	18.51	19.12	18.98	19.58	20.05
	12H	18.63	19.17	19.12	19.66	20.14	18.63	19.17	19.12	19.66	20.14
8H	4H	17.91	18.53	18.39	18.98	19.46	17.91	18.53	18.39	18.98	19.46
	6H	18.66	19.16	19.17	19.66	20.15	18.66	19.16	19.17	19.66	20.15
	8H	18.91	19.36	19.44	19.89	20.39	18.91	19.36	19.44	19.89	20.39
	12H	19.10	19.49	19.62	19.99	20.57	19.10	19.49	19.62	19.99	20.57
12H	4H	17.92	18.46	18.41	18.95	19.43	17.92	18.46	18.41	18.95	19.43
	6H	18.68	19.13	19.21	19.65	20.15	18.68	19.13	19.21	19.65	20.15
	8H	18.99	19.38	19.51	19.89	20.46	18.99	19.38	19.51	19.89	20.46