

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: P1221500

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (4000K_L24_Narrow_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221500
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 (4000K_L24_Narrow_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, WHITE SHADE, NARROW DISTRIBUTION.
LIGHT LEVEL 1 - 24,000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

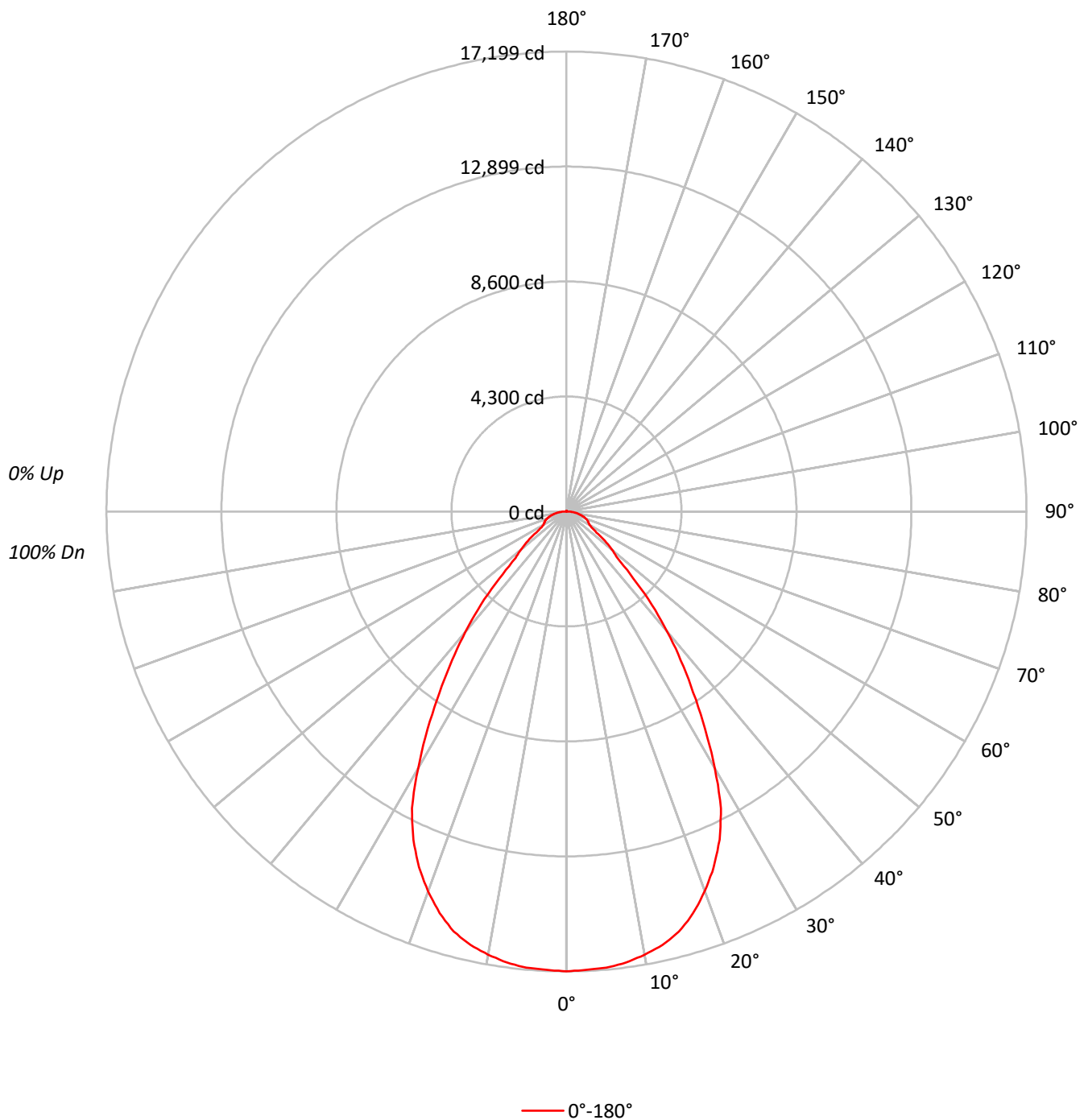
Lumens per Lamp: N/A
Luminaire Lumens: 23475.9 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

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: P1221500

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (4000K_L24_Narrow_120V)

Luminous Intensity Polar Plot



TEST NUMBER: P1221500

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (4000K_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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	102		109	106	103	100		102	99	97		98	96	94		94	93	91
2	104	98	93	89		102	96	92	88		93	89	86		90	87	84		87	84	82
3	98	90	83	79		95	88	82	78		85	80	76		83	79	75		80	77	74
4	91	82	75	70		89	81	75	70		79	73	69		76	72	68		74	70	67
5	86	76	69	63		84	75	68	63		73	67	62		71	66	62		69	65	61
6	81	70	63	58		79	69	62	58		68	62	57		66	61	57		65	60	56
7	76	65	58	53		74	64	57	53		63	57	52		61	56	52		60	55	52
8	72	60	53	49		70	60	53	49		59	53	48		57	52	48		56	51	48
9	68	56	50	45		66	56	49	45		55	49	45		54	48	45		53	48	44
10	64	53	46	42		63	52	46	42		52	46	42		51	45	41		50	45	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	99174
5°	94312
10°	89345
15°	83951
20°	76460
25°	67700
30°	55279
35°	41267
40°	29627
45°	18220
50°	11697
55°	7510
60°	5704
65°	5395
70°	4931
75°	4206
80°	3230
85°	1876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 18220 cd/sqm

TEST NUMBER: P1221500

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (4000K_L24_Narrow_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1625.4	6.9
10°-20°	4553.3	19.4
20°-30°	6145.2	26.2
30°-40°	5184.5	22.1
40°-50°	2841.5	12.1
50°-60°	1314.5	5.6
60°-70°	876.9	3.7
70°-80°	631.2	2.7
80°-90°	234.1	1.0
90°-100°	6.4	0.0
100°-110°	7.0	0.0
110°-120°	7.4	0.0
120°-130°	7.8	0.0
130°-140°	9.6	0.0
140°-150°	12.4	0.1
150°-160°	10.5	0.0
160°-170°	5.9	0.0
170°-180°	2.1	0.0
0°-30°	12324.0	52.5
0°-40°	17508.4	74.6
0°-60°	21664.4	92.3
0°-90°	23406.6	99.7
90°-120°	20.8	0.1
90°-150°	50.7	0.2
90°-180°	69.0	0.3
0°-180°	23475.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17199	
5°	17127	###
15°	16267	4553
25°	13543	6145
35°	8264	5184
45°	3541	2842
55°	1371	1314
65°	891	877
75°	601	631
85°	218	219
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: P1221500

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (4000K_L24_Narrow_120V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	17198.9
2.5°	17159.4
5°	17127.4
7.5°	17016.3
10°	16832.8
12.5°	16603.8
15°	16267.1
17.5°	15756.2
20°	15113.1
22.5°	14400.9
25°	13543.2
27.5°	12510.3
30°	11106.2
32.5°	9650.8
35°	8263.6
37.5°	7019.5
40°	5867.9
42.5°	4733.2
45°	3541.3
47.5°	2575.8
50°	2213.0
52.5°	1816.5
55°	1371.2
57.5°	1117.9
60°	995.8
62.5°	936.9
65°	891.4
67.5°	831.7
70°	762.6
72.5°	686.9
75°	601.0
77.5°	512.6
80°	420.0
82.5°	322.4
85°	218.0
87.5°	106.9
90°	5.9
92.5°	5.9
95°	5.9
97.5°	5.9
100°	5.9
102.5°	6.7
105°	6.7
107.5°	6.7
110°	6.7

TEST NUMBER: P1221500

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (4000K_L24_Narrow_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	7.6
115°	7.6
117.5°	7.6
120°	7.6
122.5°	8.4
125°	8.4
127.5°	9.3
130°	10.1
132.5°	10.9
135°	11.8
137.5°	14.3
140°	16.0
142.5°	17.7
145°	20.2
147.5°	21.9
150°	23.6
152.5°	23.6
155°	22.7
157.5°	21.9
160°	21.0
162.5°	20.2
165°	21.0
167.5°	21.0
170°	21.9
172.5°	21.9
175°	22.7
177.5°	23.6
180°	25.3

TEST NUMBER: P1221500

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (4000K_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	14.27	15.50	14.64	15.82	16.15	14.27	15.50	14.64	15.82	16.15
	3H	16.12	17.23	16.51	17.56	17.94	16.12	17.23	16.51	17.56	17.94
	4H	16.85	17.87	17.25	18.23	18.62	16.85	17.87	17.25	18.23	18.62
	6H	17.37	18.31	17.79	18.69	19.09	17.37	18.31	17.79	18.69	19.09
	8H	17.52	18.42	17.96	18.81	19.23	17.52	18.42	17.96	18.81	19.23
	12H	17.60	18.46	18.04	18.85	19.29	17.60	18.46	18.04	18.85	19.29
4H	2H	14.76	15.79	15.17	16.15	16.54	14.76	15.79	15.17	16.15	16.54
	3H	16.83	17.68	17.25	18.09	18.50	16.83	17.68	17.25	18.09	18.50
	4H	17.67	18.42	18.11	18.85	19.30	17.67	18.42	18.11	18.85	19.30
	6H	18.30	18.96	18.77	19.41	19.89	18.30	18.96	18.77	19.41	19.89
	8H	18.50	19.11	18.97	19.56	20.04	18.50	19.11	18.97	19.56	20.04
	12H	18.61	19.15	19.10	19.64	20.12	18.61	19.15	19.10	19.64	20.12
8H	4H	17.90	18.51	18.37	18.97	19.44	17.90	18.51	18.37	18.97	19.44
	6H	18.64	19.14	19.15	19.65	20.14	18.64	19.14	19.15	19.65	20.14
	8H	18.90	19.35	19.43	19.87	20.37	18.90	19.35	19.43	19.87	20.37
	12H	19.08	19.48	19.60	19.98	20.56	19.08	19.48	19.60	19.98	20.56
12H	4H	17.90	18.45	18.40	18.94	19.42	17.90	18.45	18.40	18.94	19.42
	6H	18.67	19.12	19.20	19.64	20.14	18.67	19.12	19.20	19.64	20.14
	8H	18.98	19.37	19.50	19.87	20.45	18.98	19.37	19.50	19.87	20.45