

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: P1221491

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (3500K_L24_Narrow_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221491
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 (3500K_L24_Narrow_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, WHITE SHADE, NARROW DISTRIBUTION.
LIGHT LEVEL 1 - 24,000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

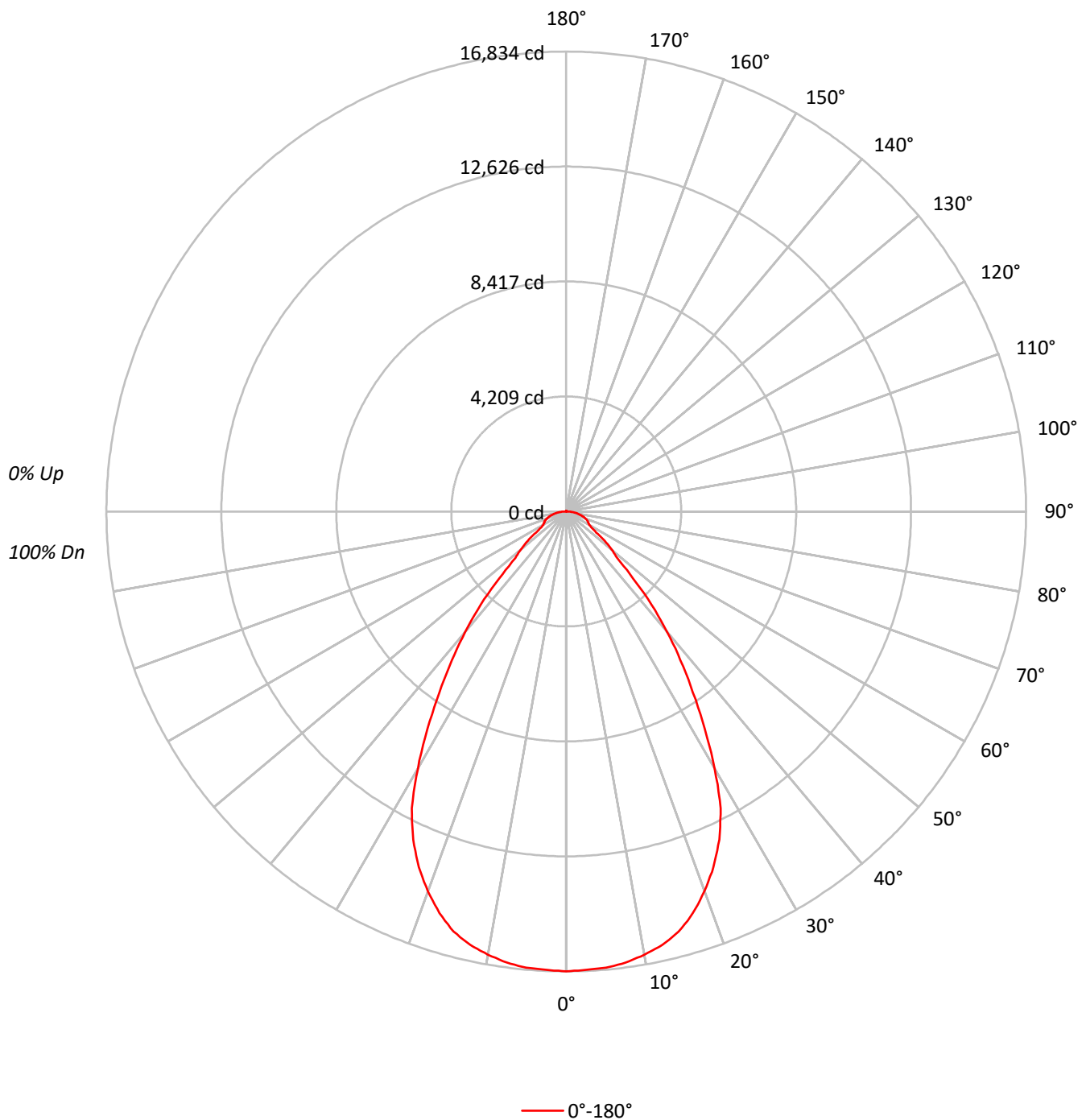
Lumens per Lamp: N/A
Luminaire Lumens: 22978.2 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

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: P1221491

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (3500K_L24_Narrow_120V)

Luminous Intensity Polar Plot



TEST NUMBER: P1221491

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (3500K_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°	97071
5°	92312
10°	87450
15°	82171
20°	74838
25°	66264
30°	54107
35°	40392
40°	28999
45°	17834
50°	11449
55°	7352
60°	5583
65°	5280
70°	4827
75°	4117
80°	3162
85°	1837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 17834 cd/sqm

TEST NUMBER: P1221491

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (3500K_L24_Narrow_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1590.9	6.9
10°-20°	4456.8	19.4
20°-30°	6014.9	26.2
30°-40°	5074.6	22.1
40°-50°	2781.3	12.1
50°-60°	1286.6	5.6
60°-70°	858.2	3.7
70°-80°	617.9	2.7
80°-90°	229.1	1.0
90°-100°	6.3	0.0
100°-110°	6.9	0.0
110°-120°	7.2	0.0
120°-130°	7.6	0.0
130°-140°	9.4	0.0
140°-150°	12.1	0.1
150°-160°	10.3	0.0
160°-170°	5.8	0.0
170°-180°	2.1	0.0
0°-30°	12062.6	52.5
0°-40°	17137.2	74.6
0°-60°	21205.0	92.3
0°-90°	22910.3	99.7
90°-120°	20.4	0.1
90°-150°	49.6	0.2
90°-180°	68.0	0.3
0°-180°	22978.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16834	
5°	16764	###
15°	15922	4457
25°	13256	6015
35°	8088	5075
45°	3466	2781
55°	1342	1287
65°	872	858
75°	588	618
85°	213	214
90°	6	17
95°	6	5
105°	7	7
115°	7	7
125°	8	8
135°	12	9
145°	20	12
155°	22	10
165°	21	6
175°	22	2
180°	25	

TEST NUMBER: P1221491

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (3500K_L24_Narrow_120V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	16834.2
2.5°	16795.5
5°	16764.2
7.5°	16655.4
10°	16475.8
12.5°	16251.7
15°	15922.1
17.5°	15422.0
20°	14792.6
22.5°	14095.5
25°	13256.0
27.5°	12245.0
30°	10870.7
32.5°	9446.2
35°	8088.4
37.5°	6870.6
40°	5743.5
42.5°	4632.9
45°	3466.2
47.5°	2521.2
50°	2166.1
52.5°	1778.0
55°	1342.2
57.5°	1094.2
60°	974.7
62.5°	917.0
65°	872.5
67.5°	814.0
70°	746.5
72.5°	672.3
75°	588.3
77.5°	501.8
80°	411.1
82.5°	315.6
85°	213.4
87.5°	104.6
90°	5.8
92.5°	5.8
95°	5.8
97.5°	5.8
100°	5.8
102.5°	6.6
105°	6.6
107.5°	6.6
110°	6.6

TEST NUMBER: P1221491

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (3500K_L24_Narrow_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	7.4
115°	7.4
117.5°	7.4
120°	7.4
122.5°	8.2
125°	8.2
127.5°	9.1
130°	9.9
132.5°	10.7
135°	11.5
137.5°	14.0
140°	15.7
142.5°	17.3
145°	19.8
147.5°	21.4
150°	23.1
152.5°	23.1
155°	22.2
157.5°	21.4
160°	20.6
162.5°	19.8
165°	20.6
167.5°	20.6
170°	21.4
172.5°	21.4
175°	22.2
177.5°	23.1
180°	24.7

TEST NUMBER: P1221491

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (3500K_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	14.19	15.43	14.56	15.75	16.07	14.19	15.43	14.56	15.75	16.07
	3H	16.05	17.15	16.44	17.49	17.86	16.05	17.15	16.44	17.49	17.86
	4H	16.77	17.80	17.18	18.16	18.55	16.77	17.80	17.18	18.16	18.55
	6H	17.29	18.24	17.71	18.61	19.02	17.29	18.24	17.71	18.61	19.02
	8H	17.45	18.34	17.88	18.74	19.15	17.45	18.34	17.88	18.74	19.15
	12H	17.53	18.38	17.97	18.77	19.21	17.53	18.38	17.97	18.77	19.21
4H	2H	14.69	15.72	15.10	16.07	16.47	14.69	15.72	15.10	16.07	16.47
	3H	16.76	17.60	17.17	18.01	18.42	16.76	17.60	17.17	18.01	18.42
	4H	17.59	18.35	18.03	18.78	19.23	17.59	18.35	18.03	18.78	19.23
	6H	18.23	18.88	18.70	19.34	19.81	18.23	18.88	18.70	19.34	19.81
	8H	18.42	19.03	18.90	19.49	19.97	18.42	19.03	18.90	19.49	19.97
	12H	18.54	19.08	19.03	19.57	20.05	18.54	19.08	19.03	19.57	20.05
8H	4H	17.83	18.44	18.30	18.89	19.37	17.83	18.44	18.30	18.89	19.37
	6H	18.57	19.07	19.08	19.57	20.06	18.57	19.07	19.08	19.57	20.06
	8H	18.83	19.28	19.35	19.80	20.30	18.83	19.28	19.35	19.80	20.30
	12H	19.01	19.40	19.53	19.90	20.48	19.01	19.40	19.53	19.90	20.48
12H	4H	17.83	18.37	18.32	18.86	19.34	17.83	18.37	18.32	18.86	19.34
	6H	18.59	19.04	19.12	19.57	20.07	18.59	19.04	19.12	19.57	20.07
	8H	18.90	19.30	19.42	19.80	20.38	18.90	19.30	19.42	19.80	20.38