

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: P1221446

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

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221446
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (3500K_L24_Narrow_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, TRANSLUCENT WHITE SHADE, NARROW DISTRIBUTION.
LIGHT LEVEL 1 - 24,000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

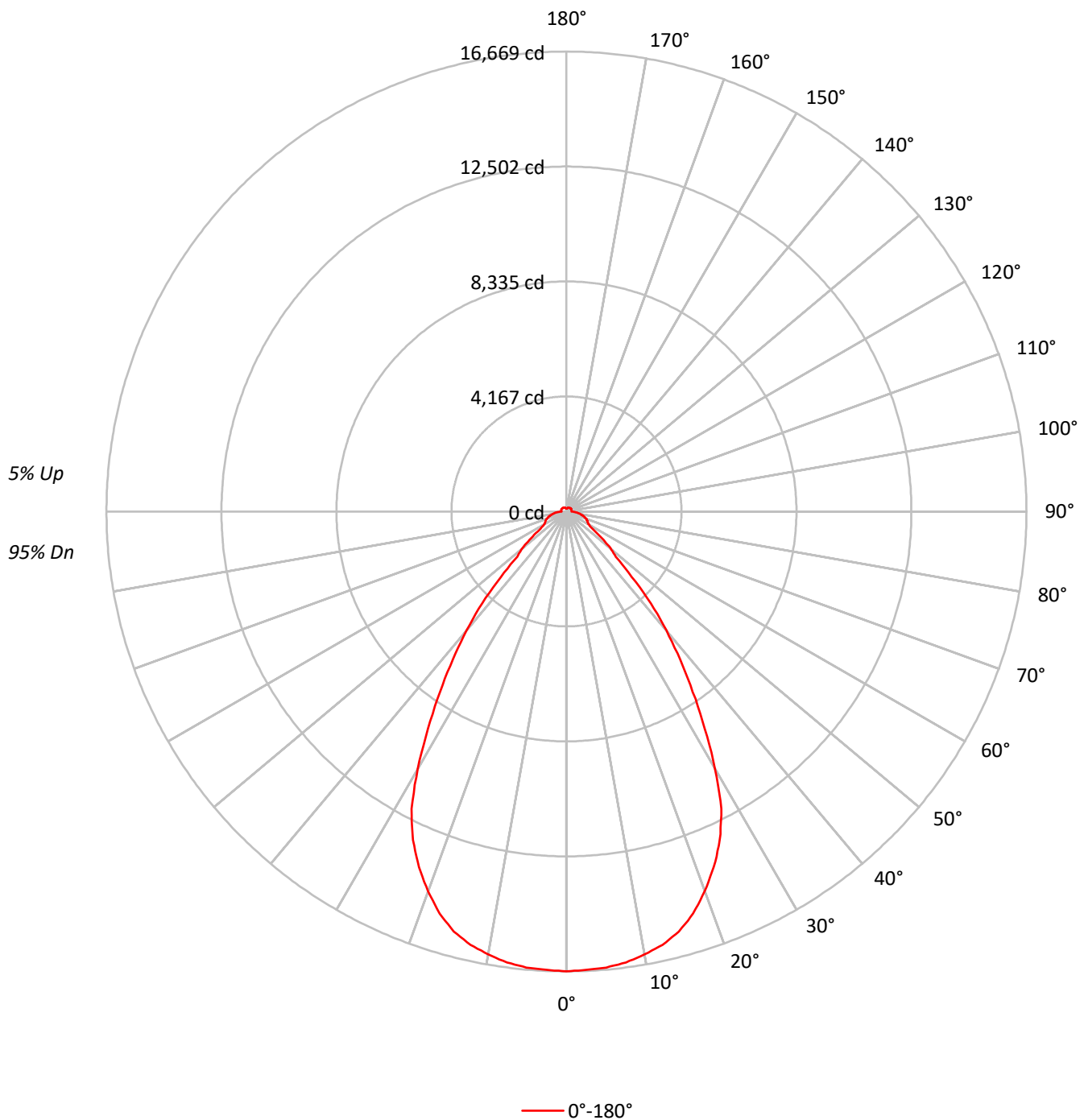
Lumens per Lamp: N/A
Luminaire Lumens: 23878.4 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

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: P1221446

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

Luminous Intensity Polar Plot



TEST NUMBER: P1221446

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98
1	110	107	103	100	107	104	101	98	99	96	94	94	92	91	90	89	87
2	103	97	91	87	100	94	90	86	90	86	83	86	83	81	83	80	78
3	96	88	82	77	94	86	81	76	83	78	74	80	76	72	77	73	70
4	90	81	74	69	88	79	73	68	76	71	67	74	69	65	71	67	64
5	84	74	67	62	82	73	66	61	71	65	60	68	63	59	66	62	58
6	79	69	61	56	77	68	61	56	65	60	55	63	58	54	62	57	54
7	75	64	56	51	73	63	56	51	61	55	51	59	54	50	58	53	49
8	70	59	52	47	69	58	52	47	57	51	47	55	50	46	54	49	46
9	66	55	48	44	65	55	48	44	53	47	43	52	47	43	51	46	42
10	63	52	45	41	62	51	45	40	50	44	40	49	43	40	48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	96117
5°	91373
10°	86532
15°	81329
20°	74100
25°	65733
30°	53635
35°	39849
40°	28400
45°	17227
50°	10983
55°	6945
60°	5286
65°	5101
70°	4854
75°	4429
80°	3815
85°	2957

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 17227 cd/sqm

TEST NUMBER: P1221446

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1574.7	6.6
10°-20°	4412.5	18.5
20°-30°	5963.2	25.0
30°-40°	5004.6	21.0
40°-50°	2698.2	11.3
50°-60°	1222.8	5.1
60°-70°	831.6	3.5
70°-80°	665.1	2.8
80°-90°	371.9	1.6
90°-100°	204.7	0.9
100°-110°	206.2	0.9
110°-120°	193.6	0.8
120°-130°	169.3	0.7
130°-140°	138.7	0.6
140°-150°	105.3	0.4
150°-160°	70.0	0.3
160°-170°	35.6	0.1
170°-180°	10.4	0.0
0°-30°	11950.4	50.0
0°-40°	16954.9	71.0
0°-60°	20875.9	87.4
0°-90°	22744.5	95.3
90°-120°	604.6	2.5
90°-150°	1017.9	4.3
90°-180°	1134.0	4.7
0°-180°	23878.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16669	
5°	16594	###
15°	15759	4413
25°	13150	5963
35°	7980	5005
45°	3348	2698
55°	1268	1223
65°	843	832
75°	633	665
85°	344	311
90°	182	111
95°	188	154
105°	195	206
115°	195	194
125°	189	169
135°	179	139
145°	167	105
155°	152	70
165°	124	36
175°	110	10
180°	108	

TEST NUMBER: P1221446

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	16668.6
2.5°	16626.6
5°	16593.6
7.5°	16486.5
10°	16302.8
12.5°	16086.1
15°	15759.0
17.5°	15278.7
20°	14646.7
22.5°	13954.6
25°	13149.7
27.5°	12156.9
30°	10776.0
32.5°	9332.5
35°	7979.6
37.5°	6755.3
40°	5624.9
42.5°	4523.3
45°	3348.4
47.5°	2421.5
50°	2077.9
52.5°	1697.3
55°	1268.0
57.5°	1033.2
60°	922.8
62.5°	875.0
65°	842.9
67.5°	800.8
70°	750.6
72.5°	695.4
75°	632.8
77.5°	566.9
80°	496.0
82.5°	422.7
85°	343.6
87.5°	259.5
90°	182.1
92.5°	185.4
95°	187.9
97.5°	190.3
100°	192.0
102.5°	194.4
105°	195.3
107.5°	196.1
110°	196.1

TEST NUMBER: P1221446

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

CANDELA DISTRIBUTION (continued):

	0°
112.5°	196.1
115°	195.3
117.5°	194.4
120°	192.8
122.5°	191.1
125°	188.7
127.5°	186.2
130°	184.6
132.5°	181.3
135°	178.8
137.5°	176.3
140°	173.8
142.5°	170.6
145°	167.3
147.5°	164.0
150°	160.7
152.5°	156.5
155°	151.6
157.5°	145.0
160°	137.6
162.5°	131.0
165°	124.4
167.5°	117.0
170°	110.4
172.5°	108.8
175°	109.6
177.5°	108.8
180°	107.9

TEST NUMBER: P1221446

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-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	13.46	14.63	13.91	15.04	15.48	13.46	14.63	13.91	15.04	15.48
	3H	15.47	16.51	15.93	16.94	17.43	15.47	16.51	15.93	16.94	17.43
	4H	16.33	17.31	16.82	17.76	18.26	16.33	17.31	16.82	17.76	18.26
	6H	17.05	17.95	17.55	18.42	18.93	17.05	17.95	17.55	18.42	18.93
	8H	17.33	18.18	17.84	18.66	19.19	17.33	18.18	17.84	18.66	19.19
	12H	17.54	18.36	18.06	18.83	19.38	17.54	18.36	18.06	18.83	19.38
4H	2H	13.98	14.95	14.47	15.40	15.90	13.98	14.95	14.47	15.40	15.90
	3H	16.22	17.02	16.71	17.52	18.04	16.22	17.02	16.71	17.52	18.04
	4H	17.22	17.94	17.73	18.45	19.01	17.22	17.94	17.73	18.45	19.01
	6H	18.08	18.71	18.62	19.24	19.82	18.08	18.71	18.62	19.24	19.82
	8H	18.41	19.00	18.96	19.54	20.12	18.41	19.00	18.96	19.54	20.12
	12H	18.69	19.21	19.25	19.78	20.36	18.69	19.21	19.25	19.78	20.36
8H	4H	17.52	18.11	18.07	18.64	19.22	17.52	18.11	18.07	18.64	19.22
	6H	18.52	19.00	19.10	19.59	20.18	18.52	19.00	19.10	19.59	20.18
	8H	18.95	19.39	19.55	19.98	20.58	18.95	19.39	19.55	19.98	20.58
	12H	19.33	19.72	19.93	20.29	20.97	19.33	19.72	19.93	20.29	20.97
12H	4H	17.54	18.07	18.11	18.63	19.22	17.54	18.07	18.11	18.63	19.22
	6H	18.59	19.02	19.18	19.62	20.22	18.59	19.02	19.18	19.62	20.22
	8H	19.08	19.46	19.67	20.04	20.72	19.08	19.46	19.67	20.04	20.72

END OF REPORT