

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: P1221445

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (3500K_L24_Medium_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221445
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-31)
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_Medium_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, TRANSLUCENT WHITE SHADE, MEDIUM DISTRIBUTION.
LIGHT LEVEL 1 - 24,000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

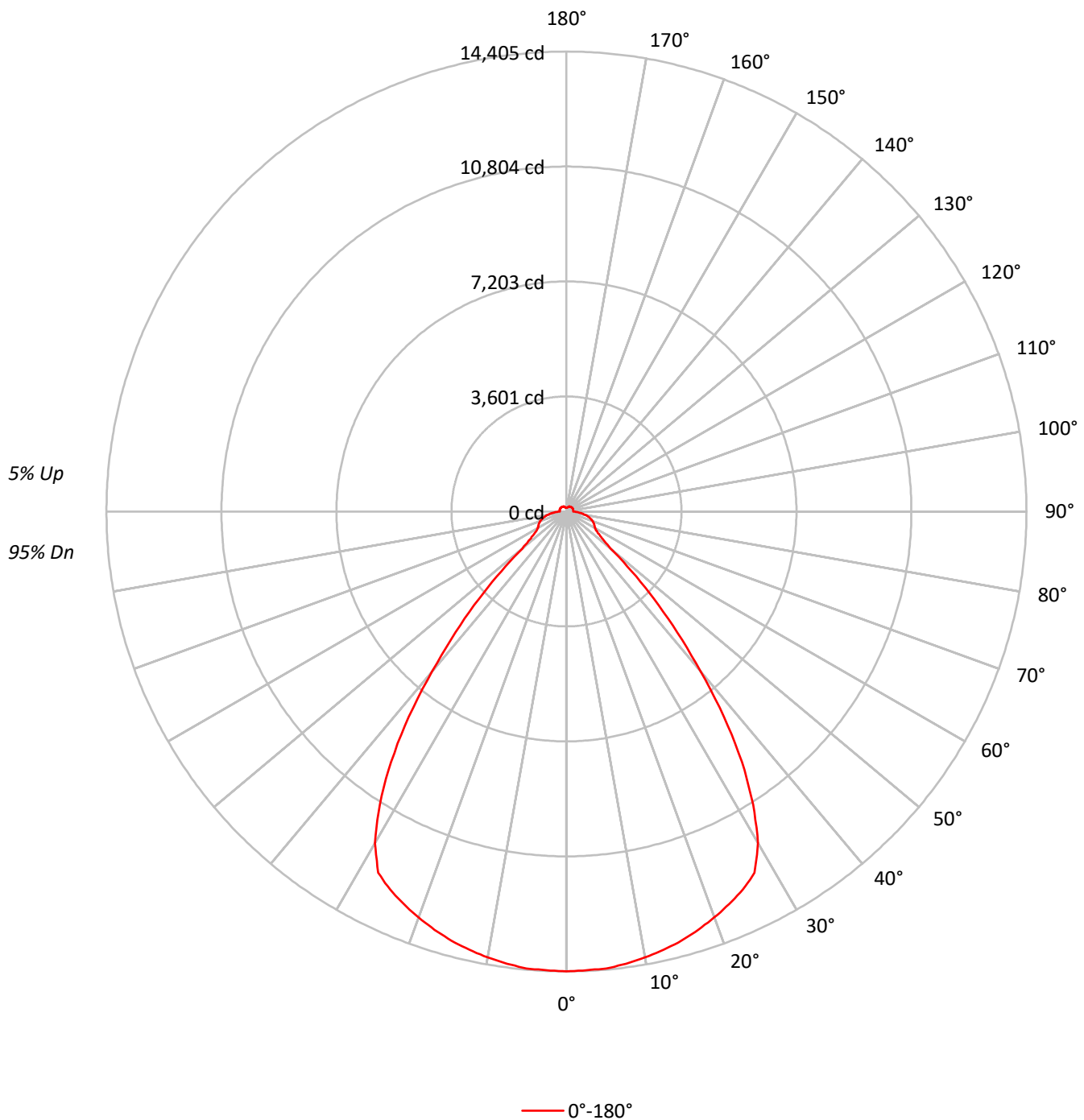
Lumens per Lamp: N/A
Luminaire Lumens: 24760.8 lumens
Efficiency: N/A
Efficacy: 160.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

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: P1221445

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (3500K_L24_Medium_120V)

Luminous Intensity Polar Plot





TEST NUMBER: P1221445

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (3500K_L24_Medium_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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	97	97	97	97	97			
1	110	106	103	100	107	103	100	97	98	96	93	94	92	90	89	88	86	86	86	86	86	86			
2	102	96	90	86	99	94	89	85	89	85	82	85	82	79	82	79	77	77	77	77	77	77			
3	95	87	81	75	93	85	79	74	82	77	73	78	74	71	75	72	69	69	69	69	69	69			
4	89	79	72	67	87	78	71	66	75	69	65	72	67	64	70	66	62	62	62	62	62	62			
5	83	73	66	60	81	72	65	60	69	63	59	67	62	58	64	60	57	57	57	57	57	57			
6	78	67	60	54	76	66	59	54	64	58	53	62	56	52	60	55	52	52	52	52	52	52			
7	73	62	55	49	71	61	54	49	59	53	48	57	52	48	56	51	47	47	47	47	47	47			
8	69	57	50	45	67	57	50	45	55	49	44	53	48	44	52	47	43	43	43	43	43	43			
9	65	53	46	42	63	53	46	41	51	45	41	50	44	40	49	44	40	40	40	40	40	40			
10	61	50	43	38	60	49	43	38	48	42	38	47	41	37	46	41	37	37	37	37	37	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	83066
5°	79101
10°	75288
15°	71847
20°	68469
25°	65337
30°	59700
35°	47827
40°	32951
45°	19915
50°	9511
55°	6782
60°	5909
65°	5814
70°	5610
75°	5213
80°	4480
85°	3376

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19915 cd/sqm

TEST NUMBER: P1221445

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (3500K_L24_Medium_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1365.2	5.5
10°-20°	3929.3	15.9
20°-30°	5987.2	24.2
30°-40°	5874.1	23.7
40°-50°	3034.7	12.3
50°-60°	1155.9	4.7
60°-70°	947.4	3.8
70°-80°	778.8	3.1
80°-90°	427.1	1.7
90°-100°	230.6	0.9
100°-110°	231.1	0.9
110°-120°	216.3	0.9
120°-130°	188.6	0.8
130°-140°	153.7	0.6
140°-150°	115.7	0.5
150°-160°	76.3	0.3
160°-170°	38.1	0.2
170°-180°	10.9	0.0
0°-30°	11281.6	45.6
0°-40°	17155.7	69.3
0°-60°	21346.3	86.2
0°-90°	23499.6	94.9
90°-120°	678.0	2.7
90°-150°	1136.0	4.6
90°-180°	1261.0	5.1
0°-180°	24760.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14405	
5°	14365	###
15°	13922	3929
25°	13071	5987
35°	9577	5874
45°	3871	3035
55°	1238	1156
65°	961	947
75°	745	779
85°	392	359
90°	206	125
95°	212	174
105°	219	231
115°	218	216
125°	210	189
135°	199	154
145°	184	116
155°	165	76
165°	133	38
175°	114	11
180°	113	

TEST NUMBER: P1221445

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (3500K_L24_Medium_120V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	14405.3
2.5°	14382.2
5°	14364.9
7.5°	14291.6
10°	14184.5
12.5°	14060.1
15°	13921.7
17.5°	13737.9
20°	13533.6
22.5°	13312.0
25°	13070.6
27.5°	12753.4
30°	11994.5
32.5°	10884.7
35°	9577.2
37.5°	8109.0
40°	6526.2
42.5°	5133.8
45°	3870.7
47.5°	2765.1
50°	1799.4
52.5°	1428.7
55°	1238.3
57.5°	1099.1
60°	1031.5
62.5°	992.8
65°	960.7
67.5°	918.7
70°	867.6
72.5°	809.9
75°	744.8
77.5°	669.0
80°	582.5
82.5°	489.4
85°	392.2
87.5°	291.7
90°	206.0
92.5°	208.5
95°	211.7
97.5°	214.2
100°	215.9
102.5°	217.5
105°	219.2
107.5°	219.2
110°	220.0

TEST NUMBER: P1221445

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (3500K_L24_Medium_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	219.2
115°	218.3
117.5°	216.7
120°	215.0
122.5°	212.6
125°	210.1
127.5°	207.6
130°	205.2
132.5°	201.0
135°	198.6
137.5°	195.3
140°	191.1
142.5°	187.9
145°	183.7
147.5°	180.4
150°	176.3
152.5°	170.6
155°	164.8
157.5°	157.4
160°	150.0
162.5°	140.9
165°	132.7
167.5°	124.4
170°	116.2
172.5°	113.7
175°	113.7
177.5°	112.9
180°	112.9

TEST NUMBER: P1221445

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (3500K_L24_Medium_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	13.75	14.93	14.20	15.35	15.80	13.75	14.93	14.20	15.35	15.80
	3H	16.01	17.07	16.48	17.51	18.00	16.01	17.07	16.48	17.51	18.00
	4H	16.98	17.97	17.47	18.42	18.93	16.98	17.97	17.47	18.42	18.93
	6H	17.77	18.68	18.28	19.16	19.67	17.77	18.68	18.28	19.16	19.67
	8H	18.06	18.93	18.58	19.42	19.95	18.06	18.93	18.58	19.42	19.95
	12H	18.28	19.11	18.80	19.59	20.14	18.28	19.11	18.80	19.59	20.14
4H	2H	14.36	15.35	14.86	15.81	16.32	14.36	15.35	14.86	15.81	16.32
	3H	16.83	17.66	17.34	18.16	18.69	16.83	17.66	17.34	18.16	18.69
	4H	17.93	18.67	18.45	19.19	19.75	17.93	18.67	18.45	19.19	19.75
	6H	18.86	19.50	19.41	20.04	20.62	18.86	19.50	19.41	20.04	20.62
	8H	19.20	19.81	19.76	20.34	20.93	19.20	19.81	19.76	20.34	20.93
	12H	19.48	20.01	20.05	20.59	21.18	19.48	20.01	20.05	20.59	21.18
8H	4H	18.26	18.86	18.82	19.40	19.99	18.26	18.86	18.82	19.40	19.99
	6H	19.33	19.83	19.92	20.41	21.01	19.33	19.83	19.92	20.41	21.01
	8H	19.77	20.22	20.37	20.82	21.43	19.77	20.22	20.37	20.82	21.43
	12H	20.15	20.55	20.75	21.13	21.81	20.15	20.55	20.75	21.13	21.81
12H	4H	18.29	18.83	18.87	19.40	19.99	18.29	18.83	18.87	19.40	19.99
	6H	19.40	19.85	20.00	20.45	21.06	19.40	19.85	20.00	20.45	21.06
	8H	19.90	20.30	20.50	20.88	21.56	19.90	20.30	20.50	20.88	21.56