

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: P1221463

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (5000K_L24_Medium_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221463
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 (5000K_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: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

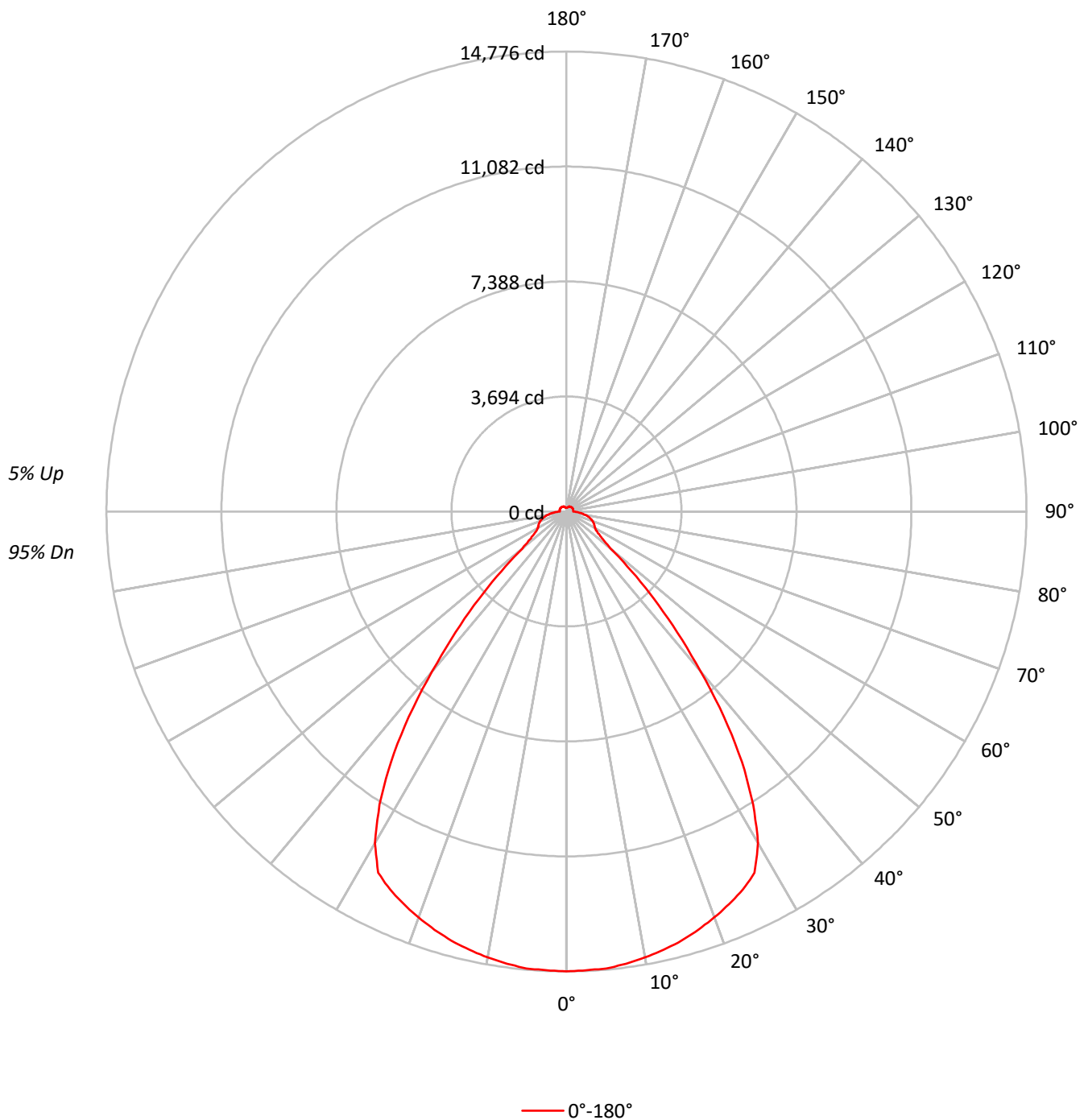
Lumens per Lamp: N/A
Luminaire Lumens: 25398.8 lumens
Efficiency: N/A
Efficacy: 164.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

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: P1221463

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (5000K_L24_Medium_120V)

Luminous Intensity Polar Plot



TEST NUMBER: P1221463

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (5000K_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
RCR																					
0	118	118	118	118		115	115	115	115		108	108	108		103	103	103		97	97	97
1	110	106	103	100		107	103	100	97		98	96	93		94	92	90		89	88	86
2	102	96	90	86		99	94	89	85		89	85	82		85	82	79		82	79	77
3	95	87	81	75		93	85	79	74		82	77	73		78	74	71		75	72	69
4	89	79	72	67		87	78	71	66		75	69	65		72	67	64		70	66	62
5	83	73	66	60		81	72	65	60		69	63	59		67	62	58		64	60	57
6	78	67	60	54		76	66	59	54		64	58	53		62	56	52		60	55	52
7	73	62	55	49		71	61	54	49		59	53	48		57	52	48		56	51	47
8	69	57	50	45		67	57	50	45		55	49	44		53	48	44		52	47	43
9	65	53	46	42		63	53	46	41		51	45	41		50	44	40		49	44	40
10	61	50	43	38		60	49	43	38		48	42	38		47	41	37		46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	85206
5°	81139
10°	77228
15°	73698
20°	70234
25°	67021
30°	61239
35°	49059
40°	33800
45°	20428
50°	9756
55°	6958
60°	6061
65°	5964
70°	5754
75°	5347
80°	4595
85°	3463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20428 cd/sqm

TEST NUMBER: P1221463

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (5000K_L24_Medium_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1400.3	5.5
10°-20°	4030.6	15.9
20°-30°	6141.4	24.2
30°-40°	6025.5	23.7
40°-50°	3112.9	12.3
50°-60°	1185.7	4.7
60°-70°	971.8	3.8
70°-80°	798.9	3.1
80°-90°	438.1	1.7
90°-100°	236.5	0.9
100°-110°	237.0	0.9
110°-120°	221.9	0.9
120°-130°	193.4	0.8
130°-140°	157.6	0.6
140°-150°	118.7	0.5
150°-160°	78.2	0.3
160°-170°	39.1	0.2
170°-180°	11.2	0.0
0°-30°	11572.4	45.6
0°-40°	17597.8	69.3
0°-60°	21896.4	86.2
0°-90°	24105.1	94.9
90°-120°	695.5	2.7
90°-150°	1165.2	4.6
90°-180°	1294.0	5.1
0°-180°	25398.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14776	
5°	14735	###
15°	14280	4031
25°	13407	6141
35°	9824	6025
45°	3970	3113
55°	1270	1186
65°	985	972
75°	764	799
85°	402	368
90°	211	128
95°	217	178
105°	225	237
115°	224	222
125°	216	193
135°	204	158
145°	188	119
155°	169	78
165°	136	39
175°	117	11
180°	116	

TEST NUMBER: P1221463

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (5000K_L24_Medium_120V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	14776.5
2.5°	14752.9
5°	14735.1
7.5°	14659.9
10°	14550.0
12.5°	14422.4
15°	14280.4
17.5°	14092.0
20°	13882.4
22.5°	13655.0
25°	13407.4
27.5°	13082.0
30°	12303.6
32.5°	11165.2
35°	9824.0
37.5°	8317.9
40°	6694.4
42.5°	5266.1
45°	3970.5
47.5°	2836.3
50°	1845.8
52.5°	1465.5
55°	1270.3
57.5°	1127.4
60°	1058.1
62.5°	1018.4
65°	985.4
67.5°	942.3
70°	889.9
72.5°	830.8
75°	764.0
77.5°	686.3
80°	597.5
82.5°	502.0
85°	402.3
87.5°	299.2
90°	211.3
92.5°	213.8
95°	217.2
97.5°	219.7
100°	221.4
102.5°	223.1
105°	224.8
107.5°	224.8
110°	225.7

TEST NUMBER: P1221463

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (5000K_L24_Medium_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	224.8
115°	224.0
117.5°	222.3
120°	220.6
122.5°	218.0
125°	215.5
127.5°	213.0
130°	210.4
132.5°	206.2
135°	203.7
137.5°	200.3
140°	196.1
142.5°	192.7
145°	188.5
147.5°	185.1
150°	180.9
152.5°	174.9
155°	169.0
157.5°	161.4
160°	153.8
162.5°	144.5
165°	136.1
167.5°	127.6
170°	119.2
172.5°	116.6
175°	116.6
177.5°	115.8
180°	115.8

TEST NUMBER: P1221463

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (5000K_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	13.84	15.02	14.29	15.44	15.89	13.84	15.02	14.29	15.44	15.89
	3H	16.10	17.16	16.57	17.60	18.09	16.10	17.16	16.57	17.60	18.09
	4H	17.07	18.06	17.56	18.51	19.02	17.07	18.06	17.56	18.51	19.02
	6H	17.86	18.77	18.36	19.24	19.76	17.86	18.77	18.36	19.24	19.76
	8H	18.15	19.01	18.67	19.51	20.03	18.15	19.01	18.67	19.51	20.03
	12H	18.37	19.20	18.89	19.68	20.23	18.37	19.20	18.89	19.68	20.23
4H	2H	14.45	15.44	14.95	15.90	16.41	14.45	15.44	14.95	15.90	16.41
	3H	16.92	17.74	17.42	18.25	18.77	16.92	17.74	17.42	18.25	18.77
	4H	18.02	18.76	18.54	19.27	19.84	18.02	18.76	18.54	19.27	19.84
	6H	18.95	19.59	19.49	20.13	20.71	18.95	19.59	19.49	20.13	20.71
	8H	19.29	19.89	19.85	20.43	21.02	19.29	19.89	19.85	20.43	21.02
	12H	19.57	20.10	20.14	20.67	21.27	19.57	20.10	20.14	20.67	21.27
8H	4H	18.35	18.95	18.90	19.49	20.08	18.35	18.95	18.90	19.49	20.08
	6H	19.42	19.91	20.00	20.50	21.10	19.42	19.91	20.00	20.50	21.10
	8H	19.86	20.30	20.46	20.90	21.51	19.86	20.30	20.46	20.90	21.51
	12H	20.24	20.63	20.84	21.22	21.90	20.24	20.63	20.84	21.22	21.90
12H	4H	18.38	18.92	18.95	19.49	20.08	18.38	18.92	18.95	19.49	20.08
	6H	19.49	19.94	20.09	20.54	21.14	19.49	19.94	20.09	20.54	21.14
	8H	19.99	20.39	20.59	20.97	21.65	19.99	20.39	20.59	20.97	21.65