

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: P1221323

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (4000K_L16_Narrow_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221323
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (4000K_L16_Narrow_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, WHITE SHADE, NARROW DISTRIBUTION.
LIGHT LEVEL 2 - 16,000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

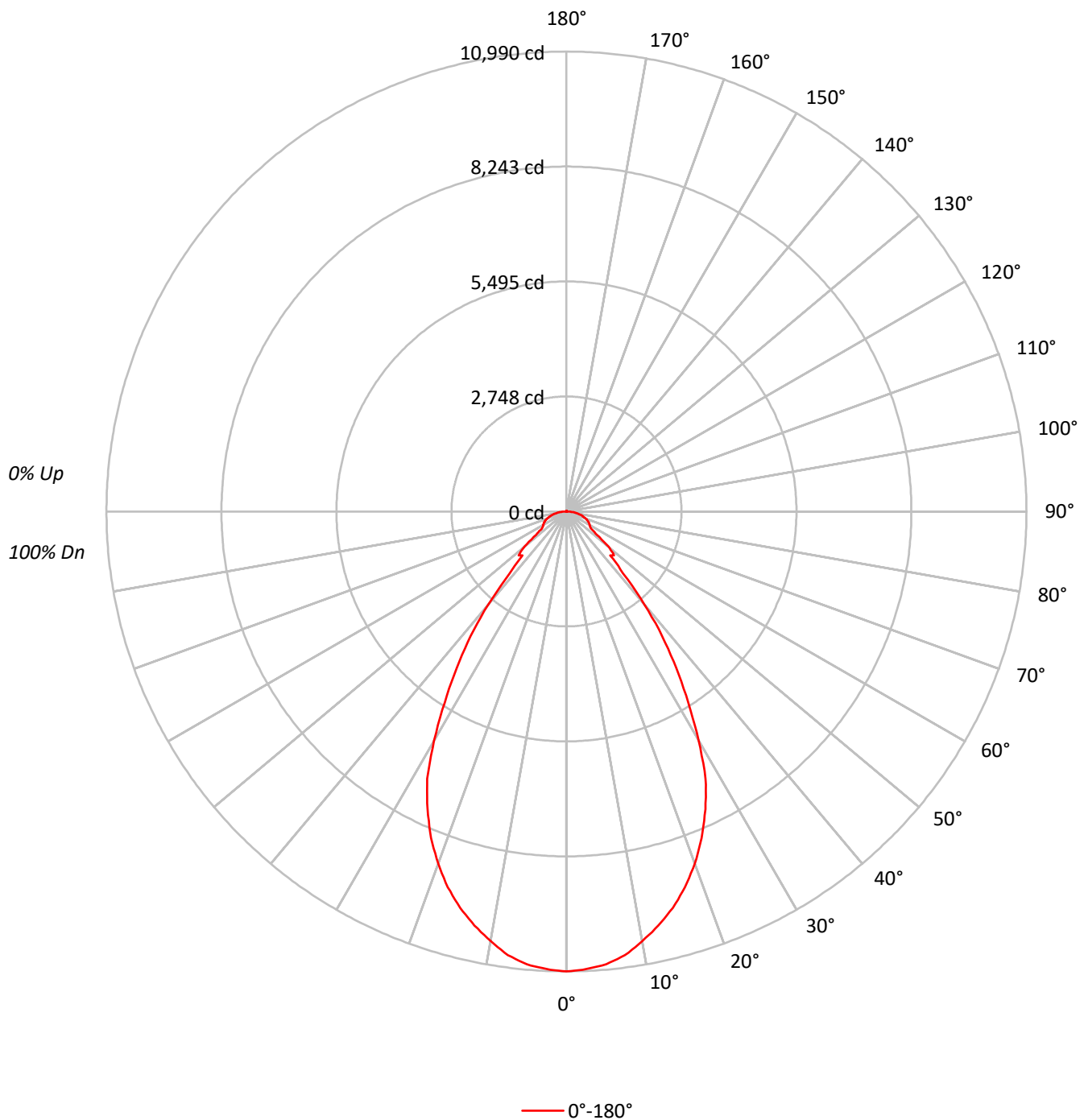
Lumens per Lamp: N/A
Luminaire Lumens: 13396.4 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')
CIE Type: Direct

Input Watts (W): 98.8
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: P1221323

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (4000K_L16_Narrow_120V)

Luminous Intensity Polar Plot





TEST NUMBER: P1221323

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (4000K_L16_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	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	100							
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90							
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80							
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73							
4	92	83	76	71	90	81	75	70	79	74	69	77	72	69	75	71	68	66							
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60							
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55							
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51							
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	52	49	47							
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44							
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41							

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60081
5°	56955
10°	52889
15°	48538
20°	43626
25°	37903
30°	30456
35°	22165
40°	14317
45°	7456
50°	6771
55°	3899
60°	3609
65°	3449
70°	3130
75°	2640
80°	1998
85°	1133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 7902 cd/sqm

TEST NUMBER: P1221323

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (4000K_L16_Narrow_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1023.3	7.6
10°-20°	2746.9	20.5
20°-30°	3568.5	26.6
30°-40°	2841.3	21.2
40°-50°	1367.9	10.2
50°-60°	729.7	5.4
60°-70°	563.3	4.2
70°-80°	393.8	2.9
80°-90°	139.3	1.0
90°-100°	1.1	0.0
100°-110°	1.4	0.0
110°-120°	2.0	0.0
120°-130°	2.2	0.0
130°-140°	3.0	0.0
140°-150°	4.4	0.0
150°-160°	4.3	0.0
160°-170°	2.9	0.0
170°-180°	1.1	0.0
0°-30°	7338.7	54.8
0°-40°	10180.0	76.0
0°-60°	12277.7	91.6
0°-90°	13374.0	99.8
90°-120°	4.5	0.0
90°-150°	14.1	0.1
90°-180°	22.0	0.2
0°-180°	13396.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10990	
5°	10865	###
15°	9808	2747
25°	7855	3568
35°	4568	2841
45°	1481	1368
55°	722	730
65°	573	563
75°	375	394
85°	129	131
90°	1	9
95°	1	1
105°	1	1
115°	2	2
125°	2	2
135°	4	3
145°	7	4
155°	9	4
165°	10	3
175°	12	1
180°	12	

TEST NUMBER: P1221323

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (4000K_L16_Narrow_120V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	10990.1
2.5°	10948.2
5°	10865.4
7.5°	10695.8
10°	10428.1
12.5°	10138.0
15°	9808.0
17.5°	9416.7
20°	8962.1
22.5°	8446.1
25°	7854.6
27.5°	7199.7
30°	6318.0
32.5°	5416.9
35°	4567.9
37.5°	3756.7
40°	2908.7
42.5°	2002.5
45°	1481.4
47.5°	1547.8
50°	1304.7
52.5°	914.4
55°	722.3
57.5°	669.2
60°	636.5
62.5°	608.9
65°	573.2
67.5°	531.3
70°	484.3
72.5°	431.1
75°	375.0
77.5°	315.7
80°	256.4
82.5°	194.1
85°	128.7
87.5°	60.3
90°	1.0
92.5°	1.0
95°	1.0
97.5°	1.0
100°	1.0
102.5°	1.0
105°	1.0
107.5°	2.0
110°	2.0

TEST NUMBER: P1221323

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (4000K_L16_Narrow_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.0
115°	2.0
117.5°	2.0
120°	2.0
122.5°	2.0
125°	2.0
127.5°	3.1
130°	3.1
132.5°	3.1
135°	4.1
137.5°	4.1
140°	5.1
142.5°	6.1
145°	7.2
147.5°	8.2
150°	9.2
152.5°	9.2
155°	9.2
157.5°	9.2
160°	9.2
162.5°	10.2
165°	10.2
167.5°	11.2
170°	11.2
172.5°	11.2
175°	12.3
177.5°	12.3
180°	12.3

TEST NUMBER: P1221323

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (4000K_L16_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	12.68	13.91	13.05	14.22	14.54	12.68	13.91	13.05	14.22	14.54
	3H	14.73	15.82	15.11	16.16	16.53	14.73	15.82	15.11	16.16	16.53
	4H	15.48	16.50	15.88	16.85	17.24	15.48	16.50	15.88	16.85	17.24
	6H	15.99	16.93	16.41	17.31	17.71	15.99	16.93	16.41	17.31	17.71
	8H	16.14	17.03	16.58	17.43	17.84	16.14	17.03	16.58	17.43	17.84
	12H	16.22	17.07	16.65	17.45	17.89	16.22	17.07	16.65	17.45	17.89
4H	2H	13.27	14.29	13.68	14.65	15.04	13.27	14.29	13.68	14.65	15.04
	3H	15.49	16.33	15.91	16.74	17.15	15.49	16.33	15.91	16.74	17.15
	4H	16.34	17.10	16.78	17.52	17.97	16.34	17.10	16.78	17.52	17.97
	6H	16.96	17.62	17.43	18.07	18.54	16.96	17.62	17.43	18.07	18.54
	8H	17.15	17.76	17.62	18.21	18.68	17.15	17.76	17.62	18.21	18.68
	12H	17.25	17.79	17.74	18.28	18.76	17.25	17.79	17.74	18.28	18.76
8H	4H	16.57	17.19	17.05	17.64	18.11	16.57	17.19	17.05	17.64	18.11
	6H	17.30	17.80	17.81	18.30	18.79	17.30	17.80	17.81	18.30	18.79
	8H	17.55	18.00	18.08	18.52	19.01	17.55	18.00	18.08	18.52	19.01
	12H	17.72	18.11	18.24	18.61	19.19	17.72	18.11	18.24	18.61	19.19
12H	4H	16.58	17.12	17.07	17.61	18.08	16.58	17.12	17.07	17.61	18.08
	6H	17.33	17.77	17.85	18.29	18.79	17.33	17.77	17.85	18.29	18.79
	8H	17.62	18.01	18.14	18.51	19.09	17.62	18.01	18.14	18.51	19.09