

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: P1221272

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Narrow_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221272
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Narrow_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, TRANSLUCENT WHITE SHADE, NARROW DISTRIBUTION.
LIGHT LEVEL 1 - 18,000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

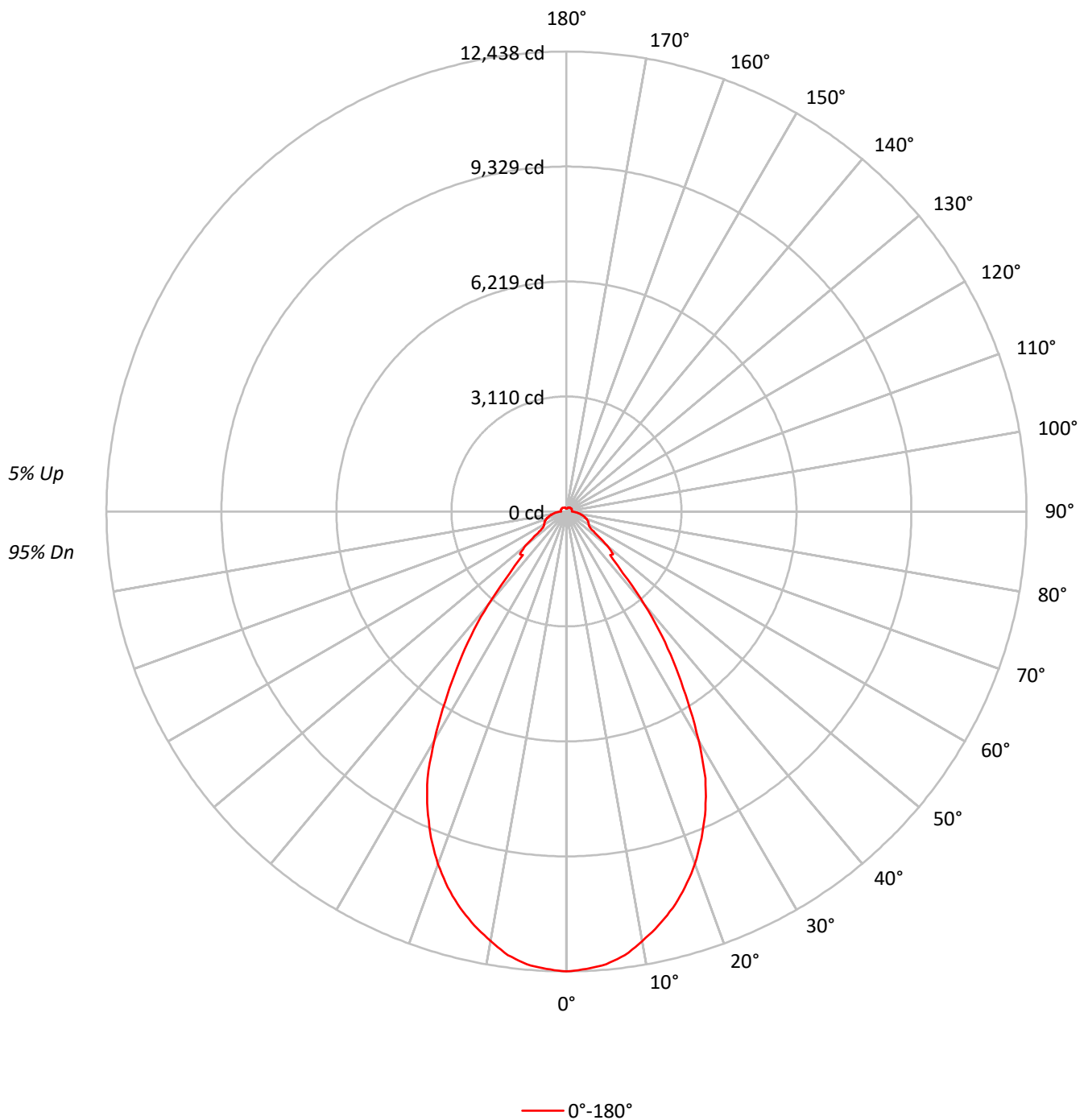
Lumens per Lamp: N/A
Luminaire Lumens: 16148.9 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')
CIE Type: Direct

Input Watts (W): 120.8
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: P1221272

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Narrow_120V)

Luminous Intensity Polar Plot



CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	97	97	97	97	97			
1	110	106	103	100	107	103	100	98	98	96	94	94	92	90	89	88	86	86	86	86	86	84			
2	103	96	91	87	100	94	89	85	90	86	83	86	83	80	82	80	77	77	77	77	77	75			
3	96	88	82	77	93	86	80	76	82	78	74	79	75	72	76	73	70	70	70	70	70	68			
4	90	81	74	69	88	79	73	68	76	71	66	73	69	65	71	67	64	64	64	64	64	62			
5	85	74	67	62	82	73	66	61	70	65	60	68	63	59	66	62	58	58	58	58	58	56			
6	79	69	62	57	77	68	61	56	66	60	55	63	58	54	62	57	54	54	54	54	54	52			
7	75	64	57	52	73	63	56	52	61	55	51	59	54	50	58	53	50	50	50	50	50	48			
8	71	60	53	48	69	59	52	48	57	51	47	56	50	46	54	49	46	46	46	46	46	44			
9	67	56	49	44	65	55	49	44	54	48	44	52	47	43	51	46	43	43	43	43	43	41			
10	63	52	46	41	62	52	45	41	50	45	41	49	44	40	48	43	40	40	40	40	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	67995
5°	64461
10°	59855
15°	54948
20°	49411
25°	42910
30°	34420
35°	24989
40°	16198
45°	8405
50°	7483
55°	4229
60°	3938
65°	3892
70°	3696
75°	3350
80°	2888
85°	2264

MAXIMUM LUMINANCE 45°-90°:

Luminance: 8740 cd/sqm

TEST NUMBER: P1221272

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Narrow_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1158.2	7.2
10°-20°	3110.0	19.3
20°-30°	4037.6	25.0
30°-40°	3206.8	19.9
40°-50°	1535.2	9.5
50°-60°	796.1	4.9
60°-70°	635.8	3.9
70°-80°	501.2	3.1
80°-90°	280.2	1.7
90°-100°	162.8	1.0
100°-110°	163.3	1.0
110°-120°	152.8	0.9
120°-130°	132.9	0.8
130°-140°	107.9	0.7
140°-150°	80.5	0.5
150°-160°	53.0	0.3
160°-170°	27.1	0.2
170°-180°	7.5	0.0
0°-30°	8305.8	51.4
0°-40°	11512.5	71.3
0°-60°	13843.8	85.7
0°-90°	15261.0	94.5
90°-120°	479.0	3.0
90°-150°	800.3	5.0
90°-180°	888.0	5.5
0°-180°	16148.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12438	
5°	12297	###
15°	11103	3110
25°	8892	4038
35°	5150	3207
45°	1670	1535
55°	784	796
65°	647	636
75°	476	501
85°	257	233
90°	145	87
95°	150	123
105°	154	163
115°	154	153
125°	148	133
135°	139	108
145°	128	81
155°	115	53
165°	95	27
175°	78	8
180°	78	

TEST NUMBER: P1221272

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Narrow_120V)

CANDELA DISTRIBUTION (FULL):

	0°
0°	12437.7
2.5°	12387.4
5°	12297.4
7.5°	12105.6
10°	11801.6
12.5°	11476.5
15°	11103.4
17.5°	10663.7
20°	10150.4
22.5°	9559.8
25°	8892.1
27.5°	8139.0
30°	7140.3
32.5°	6104.3
35°	5150.0
37.5°	4244.9
40°	3290.7
42.5°	2266.3
45°	1669.9
47.5°	1712.0
50°	1441.9
52.5°	999.8
55°	783.5
57.5°	723.9
60°	694.6
62.5°	673.6
65°	646.7
67.5°	611.6
70°	571.8
72.5°	526.2
75°	475.9
77.5°	424.5
80°	370.7
82.5°	315.7
85°	257.3
87.5°	197.6
90°	145.0
92.5°	147.3
95°	149.7
97.5°	150.9
100°	153.2
102.5°	154.4
105°	154.4
107.5°	154.4
110°	155.5

TEST NUMBER: P1221272

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_Narrow_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	154.4
115°	154.4
117.5°	153.2
120°	152.0
122.5°	149.7
125°	148.5
127.5°	146.2
130°	143.8
132.5°	141.5
135°	139.2
137.5°	136.8
140°	134.5
142.5°	131.0
145°	127.5
147.5°	125.1
150°	121.6
152.5°	118.1
155°	114.6
157.5°	109.9
160°	105.2
162.5°	100.6
165°	94.7
167.5°	88.9
170°	83.0
172.5°	77.2
175°	78.3
177.5°	78.3
180°	78.3

TEST NUMBER: P1221272

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K_L18_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	12.33	13.48	12.79	13.91	14.37	12.33	13.48	12.79	13.91	14.37
	3H	14.62	15.65	15.10	16.10	16.60	14.62	15.65	15.10	16.10	16.60
	4H	15.54	16.51	16.04	16.97	17.49	15.54	16.51	16.04	16.97	17.49
	6H	16.29	17.18	16.80	17.66	18.19	16.29	17.18	16.80	17.66	18.19
	8H	16.58	17.42	17.10	17.92	18.46	16.58	17.42	17.10	17.92	18.46
	12H	16.80	17.61	17.33	18.10	18.66	16.80	17.61	17.33	18.10	18.66
4H	2H	12.98	13.95	13.48	14.41	14.93	12.98	13.95	13.48	14.41	14.93
	3H	15.45	16.25	15.96	16.76	17.30	15.45	16.25	15.96	16.76	17.30
	4H	16.49	17.21	17.02	17.73	18.31	16.49	17.21	17.02	17.73	18.31
	6H	17.37	17.99	17.92	18.54	19.14	17.37	17.99	17.92	18.54	19.14
	8H	17.71	18.30	18.27	18.84	19.44	17.71	18.30	18.27	18.84	19.44
	12H	17.99	18.51	18.57	19.09	19.69	17.99	18.51	18.57	19.09	19.69
8H	4H	16.80	17.39	17.36	17.93	18.53	16.80	17.39	17.36	17.93	18.53
	6H	17.82	18.31	18.42	18.90	19.51	17.82	18.31	18.42	18.90	19.51
	8H	18.26	18.69	18.87	19.30	19.92	18.26	18.69	18.87	19.30	19.92
	12H	18.66	19.04	19.26	19.62	20.32	18.66	19.04	19.26	19.62	20.32
12H	4H	16.83	17.35	17.41	17.93	18.53	16.83	17.35	17.41	17.93	18.53
	6H	17.89	18.33	18.50	18.93	19.55	17.89	18.33	18.50	18.93	19.55
	8H	18.39	18.78	19.00	19.36	20.06	18.39	18.78	19.00	19.36	20.06