

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: P1221296

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (6500K_L16_Narrow_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221296
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 (6500K_L16_Narrow_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, TRANSLUCENT WHITE SHADE, NARROW DISTRIBUTION.
LIGHT LEVEL 2 - 16,000 LUMENS
Light Source: 6500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

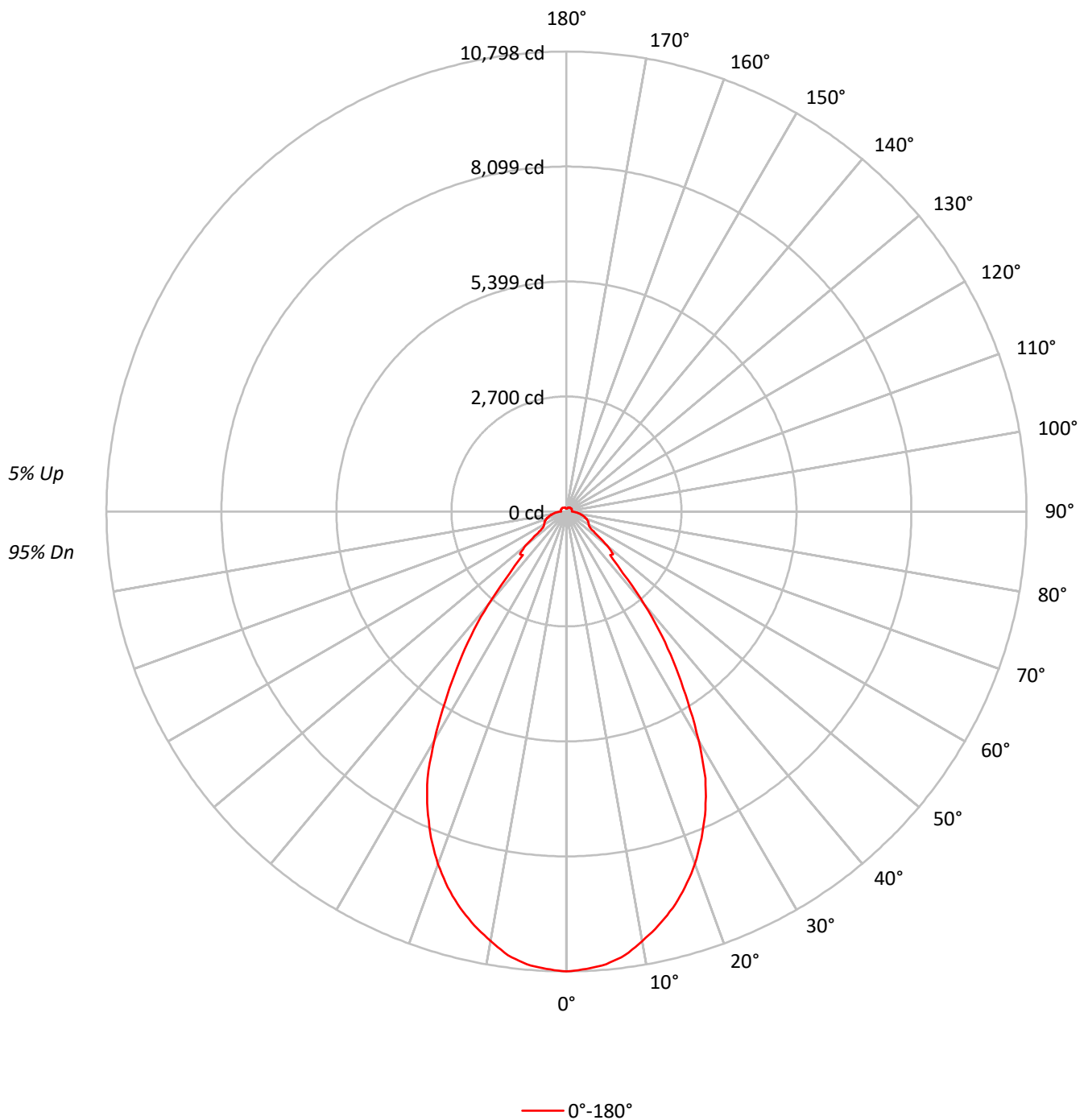
Lumens per Lamp: N/A
Luminaire Lumens: 14020.1 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')
CIE Type: Direct

Input Watts (W): 101.9
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: P1221296

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (6500K_L16_Narrow_120V)

Luminous Intensity Polar Plot





TEST NUMBER: P1221296

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (6500K_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	0		
RCR																				
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95		
1	110	106	103	100	107	103	100	98	98	96	94	94	92	90	89	88	86	84		
2	103	96	91	87	100	94	89	85	90	86	83	86	83	80	82	80	77	75		
3	96	88	82	77	93	86	80	76	82	78	74	79	75	72	76	73	70	68		
4	90	81	74	69	88	79	73	68	76	71	66	73	69	65	71	67	64	62		
5	85	74	67	62	82	73	66	61	70	65	60	68	63	59	66	62	58	56		
6	79	69	62	57	77	68	61	56	66	60	55	63	58	54	62	57	54	52		
7	75	64	57	52	73	63	56	52	61	55	51	59	54	50	58	53	50	48		
8	71	60	53	48	69	59	52	48	57	51	47	56	50	46	54	49	46	44		
9	67	56	49	44	65	55	49	44	54	48	44	52	47	43	51	46	43	41		
10	63	52	46	41	62	52	45	41	50	45	41	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59032
5°	55964
10°	51965
15°	47705
20°	42897
25°	37253
30°	29883
35°	21695
40°	14062
45°	7297
50°	6496
55°	3672
60°	3419
65°	3378
70°	3209
75°	2909
80°	2507
85°	1966

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 7588 cd/sqm

TEST NUMBER: P1221296

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (6500K_L16_Narrow_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1005.5	7.2
10°-20°	2700.1	19.3
20°-30°	3505.3	25.0
30°-40°	2784.0	19.9
40°-50°	1332.8	9.5
50°-60°	691.2	4.9
60°-70°	552.0	3.9
70°-80°	435.1	3.1
80°-90°	243.3	1.7
90°-100°	141.4	1.0
100°-110°	141.8	1.0
110°-120°	132.7	0.9
120°-130°	115.4	0.8
130°-140°	93.6	0.7
140°-150°	69.9	0.5
150°-160°	46.0	0.3
160°-170°	23.6	0.2
170°-180°	6.5	0.0
0°-30°	7210.9	51.4
0°-40°	9994.9	71.3
0°-60°	12018.9	85.7
0°-90°	13249.2	94.5
90°-120°	415.8	3.0
90°-150°	694.7	5.0
90°-180°	771.0	5.5
0°-180°	14020.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10798	
5°	10676	###
15°	9640	2700
25°	7720	3505
35°	4471	2784
45°	1450	1333
55°	680	691
65°	561	552
75°	413	435
85°	223	203
90°	126	76
95°	130	107
105°	134	142
115°	134	133
125°	129	115
135°	121	94
145°	111	70
155°	100	46
165°	82	24
175°	68	7
180°	68	

TEST NUMBER: P1221296

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (6500K_L16_Narrow_120V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	10798.2
2.5°	10754.5
5°	10676.3
7.5°	10509.8
10°	10245.9
12.5°	9963.6
15°	9639.8
17.5°	9258.0
20°	8812.3
22.5°	8299.6
25°	7719.9
27.5°	7066.1
30°	6199.1
32.5°	5299.6
35°	4471.1
37.5°	3685.3
40°	2856.9
42.5°	1967.5
45°	1449.8
47.5°	1486.3
50°	1251.8
52.5°	868.0
55°	680.2
57.5°	628.4
60°	603.1
62.5°	584.8
65°	561.4
67.5°	531.0
70°	496.5
72.5°	456.9
75°	413.2
77.5°	368.5
80°	321.8
82.5°	274.1
85°	223.4
87.5°	171.6
90°	125.9
92.5°	127.9
95°	130.0
97.5°	131.0
100°	133.0
102.5°	134.0
105°	134.0
107.5°	134.0
110°	135.0

TEST NUMBER: P1221296

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (6500K_L16_Narrow_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	134.0
115°	134.0
117.5°	133.0
120°	132.0
122.5°	130.0
125°	128.9
127.5°	126.9
130°	124.9
132.5°	122.8
135°	120.8
137.5°	118.8
140°	116.8
142.5°	113.7
145°	110.7
147.5°	108.6
150°	105.6
152.5°	102.5
155°	99.5
157.5°	95.4
160°	91.4
162.5°	87.3
165°	82.2
167.5°	77.2
170°	72.1
172.5°	67.0
175°	68.0
177.5°	68.0
180°	68.0

TEST NUMBER: P1221296

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (6500K_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	11.84	12.99	12.30	13.42	13.88	11.84	12.99	12.30	13.42	13.88
	3H	14.13	15.16	14.61	15.61	16.11	14.13	15.16	14.61	15.61	16.11
	4H	15.05	16.02	15.55	16.48	17.00	15.05	16.02	15.55	16.48	17.00
	6H	15.80	16.69	16.31	17.17	17.70	15.80	16.69	16.31	17.17	17.70
	8H	16.09	16.93	16.61	17.43	17.97	16.09	16.93	16.61	17.43	17.97
	12H	16.31	17.12	16.84	17.61	18.17	16.31	17.12	16.84	17.61	18.17
4H	2H	12.49	13.45	12.99	13.92	14.44	12.49	13.45	12.99	13.92	14.44
	3H	14.95	15.76	15.46	16.27	16.80	14.95	15.76	15.46	16.27	16.80
	4H	15.99	16.72	16.52	17.24	17.81	15.99	16.72	16.52	17.24	17.81
	6H	16.88	17.50	17.43	18.05	18.64	16.88	17.50	17.43	18.05	18.64
	8H	17.22	17.80	17.78	18.35	18.95	17.22	17.80	17.78	18.35	18.95
	12H	17.50	18.02	18.08	18.60	19.20	17.50	18.02	18.08	18.60	19.20
8H	4H	16.31	16.90	16.87	17.44	18.04	16.31	16.90	16.87	17.44	18.04
	6H	17.33	17.82	17.92	18.41	19.02	17.33	17.82	17.92	18.41	19.02
	8H	17.77	18.20	18.38	18.81	19.43	17.77	18.20	18.38	18.81	19.43
	12H	18.16	18.54	18.77	19.13	19.83	18.16	18.54	18.77	19.13	19.83
12H	4H	16.34	16.86	16.91	17.44	18.04	16.34	16.86	16.91	17.44	18.04
	6H	17.40	17.83	18.01	18.44	19.06	17.40	17.83	18.01	18.44	19.06
	8H	17.90	18.28	18.51	18.87	19.57	17.90	18.28	18.51	18.87	19.57