

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: P1221255

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (6500K_L18_Wide_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221255
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (6500K_L18_Wide_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, CLEAR SHADE, WIDE DISTRIBUTION.
LIGHT LEVEL 1 - 18,000 LUMENS
Light Source: 6500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

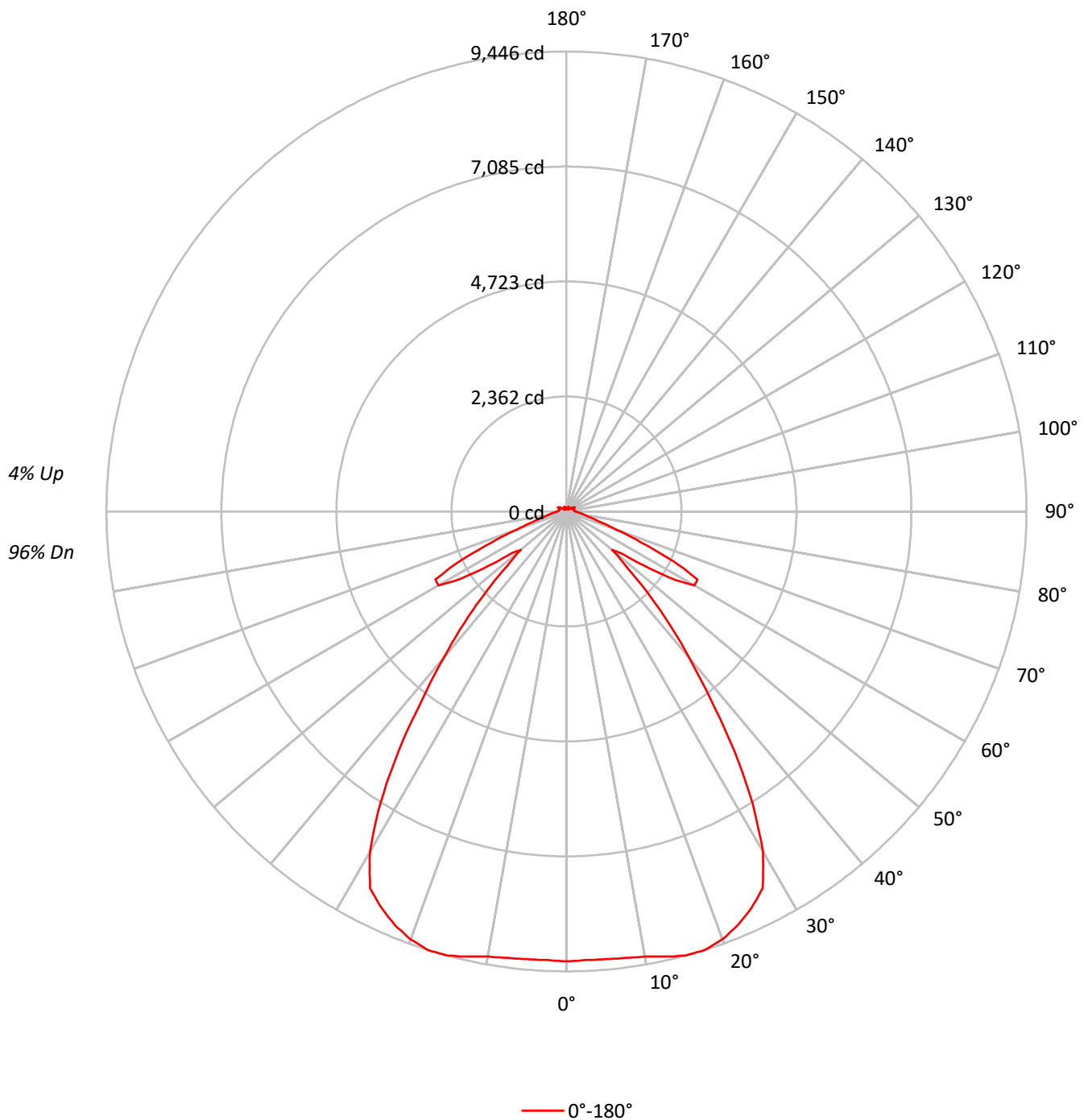
Lumens per Lamp: N/A
Luminaire Lumens: 18984.2 lumens
Efficiency: N/A
Efficacy: 154.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.1
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')
CIE Type: Direct

Input Watts (W): 122.6
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: P1221255

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (6500K_L18_Wide_120V)

Luminous Intensity Polar Plot



TEST NUMBER: P1221255

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (6500K_L18_Wide_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		109	109	109		103	103	103		98	98	98
1	109	105	101	98		106	102	99	96		97	95	92		93	91	89		89	87	85
2	101	93	87	82		98	91	86	81		87	82	79		83	79	76		80	77	74
3	93	83	76	71		90	82	75	70		78	73	68		75	70	66		72	68	65
4	86	75	67	61		83	74	66	61		71	65	60		68	63	58		66	61	57
5	80	68	60	54		78	67	59	54		65	58	53		62	57	52		60	55	51
6	74	62	54	49		72	61	54	48		59	53	48		57	51	47		55	50	46
7	70	57	49	44		68	56	49	44		55	48	43		53	47	42		51	46	42
8	65	53	45	40		64	52	45	40		51	44	39		49	43	39		48	42	38
9	61	49	42	37		60	48	41	36		47	41	36		46	40	36		44	39	35
10	58	46	39	34		57	45	38	34		44	38	33		43	37	33		42	36	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50508
5°	48392
10°	47074
15°	46732
20°	45546
25°	43375
30°	38911
35°	29219
40°	19302
45°	11754
50°	6358
55°	10427
60°	17204
65°	14624
70°	7014
75°	3786
80°	2701
85°	2204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 62.5°
Luminance: 17693 cd/sqm

TEST NUMBER: P1221255

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (6500K_L18_Wide_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.8	4.7
10°-20°	2664.3	14.0
20°-30°	4106.6	21.6
30°-40°	3712.9	19.6
40°-50°	1840.3	9.7
50°-60°	1818.4	9.6
60°-70°	2264.9	11.9
70°-80°	635.3	3.3
80°-90°	279.4	1.5
90°-100°	178.5	0.9
100°-110°	157.9	0.8
110°-120°	172.8	0.9
120°-130°	107.9	0.6
130°-140°	42.7	0.2
140°-150°	45.6	0.2
150°-160°	45.9	0.2
160°-170°	23.0	0.1
170°-180°	4.9	0.0
0°-30°	7653.8	40.3
0°-40°	11366.7	59.9
0°-60°	15025.4	79.1
0°-90°	18205.0	95.9
90°-120°	509.1	2.7
90°-150°	705.3	3.7
90°-180°	779.0	4.1
0°-180°	18984.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9239	
5°	9232	883
15°	9443	2664
25°	8988	4107
35°	6022	3713
45°	2335	1840
55°	1932	1818
65°	2430	2265
75°	538	635
85°	250	225
90°	184	103
95°	159	130
105°	156	158
115°	194	173
125°	118	108
135°	51	43
145°	74	46
155°	101	46
165°	81	23
175°	48	5
180°	44	

TEST NUMBER: P1221255

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (6500K_L18_Wide_120V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	9239.0
2.5°	9224.7
5°	9231.9
7.5°	9248.5
10°	9281.7
12.5°	9366.0
15°	9443.2
17.5°	9445.6
20°	9356.5
22.5°	9193.9
25°	8988.5
27.5°	8726.1
30°	8071.9
32.5°	7113.8
35°	6021.6
37.5°	4845.1
40°	3921.4
42.5°	3103.4
45°	2335.3
47.5°	1645.5
50°	1225.2
52.5°	1399.7
55°	1931.6
57.5°	2569.2
60°	3034.5
62.5°	3033.4
65°	2430.2
67.5°	1660.9
70°	1085.1
72.5°	743.2
75°	537.8
77.5°	415.5
80°	346.7
82.5°	294.4
85°	250.5
87.5°	214.9
90°	184.0
92.5°	168.6
95°	159.1
97.5°	155.5
100°	157.9
102.5°	159.1
105°	155.5
107.5°	137.7
110°	130.6

TEST NUMBER: P1221255

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (6500K_L18_Wide_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	160.3
115°	193.5
117.5°	192.3
120°	172.1
122.5°	146.0
125°	117.5
127.5°	91.4
130°	72.4
132.5°	59.4
135°	51.1
137.5°	47.5
140°	49.9
142.5°	58.2
145°	73.6
147.5°	89.0
150°	97.4
152.5°	100.9
155°	100.9
157.5°	98.5
160°	95.0
162.5°	89.0
165°	80.7
167.5°	70.0
170°	60.5
172.5°	52.2
175°	47.5
177.5°	45.1
180°	43.9

TEST NUMBER: P1221255

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (6500K_L18_Wide_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	20.53	21.88	20.96	22.28	22.70	20.53	21.88	20.96	22.28	22.70
	3H	21.66	22.87	22.10	23.29	23.75	21.66	22.87	22.10	23.29	23.75
	4H	21.76	22.90	22.23	23.34	23.82	21.76	22.90	22.23	23.34	23.82
	6H	21.80	22.85	22.28	23.31	23.80	21.80	22.85	22.28	23.31	23.80
	8H	21.81	22.81	22.31	23.28	23.79	21.81	22.81	22.31	23.28	23.79
	12H	21.82	22.78	22.32	23.24	23.77	21.82	22.78	22.32	23.24	23.77
4H	2H	21.31	22.45	21.78	22.88	23.36	21.31	22.45	21.78	22.88	23.36
	3H	22.34	23.30	22.83	23.78	24.28	22.34	23.30	22.83	23.78	24.28
	4H	22.47	23.33	22.97	23.82	24.36	22.47	23.33	22.97	23.82	24.36
	6H	22.55	23.29	23.07	23.81	24.37	22.55	23.29	23.07	23.81	24.37
	8H	22.57	23.26	23.10	23.78	24.35	22.57	23.26	23.10	23.78	24.35
	12H	22.60	23.21	23.15	23.77	24.33	22.60	23.21	23.15	23.77	24.33
8H	4H	22.45	23.15	22.99	23.67	24.23	22.45	23.15	22.99	23.67	24.23
	6H	22.57	23.13	23.13	23.70	24.27	22.57	23.13	23.13	23.70	24.27
	8H	22.62	23.12	23.20	23.70	24.29	22.62	23.12	23.20	23.70	24.29
	12H	22.69	23.13	23.27	23.69	24.35	22.69	23.13	23.27	23.69	24.35
12H	4H	22.43	23.05	22.98	23.60	24.17	22.43	23.05	22.98	23.60	24.17
	6H	22.54	23.05	23.13	23.63	24.21	22.54	23.05	23.13	23.63	24.21
	8H	22.63	23.06	23.21	23.63	24.29	22.63	23.06	23.21	23.63	24.29