

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: P1221225

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (3500K_L16_Wide_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221225
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 (3500K_L16_Wide_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, CLEAR SHADE, WIDE DISTRIBUTION.
LIGHT LEVEL 2 - 16,000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

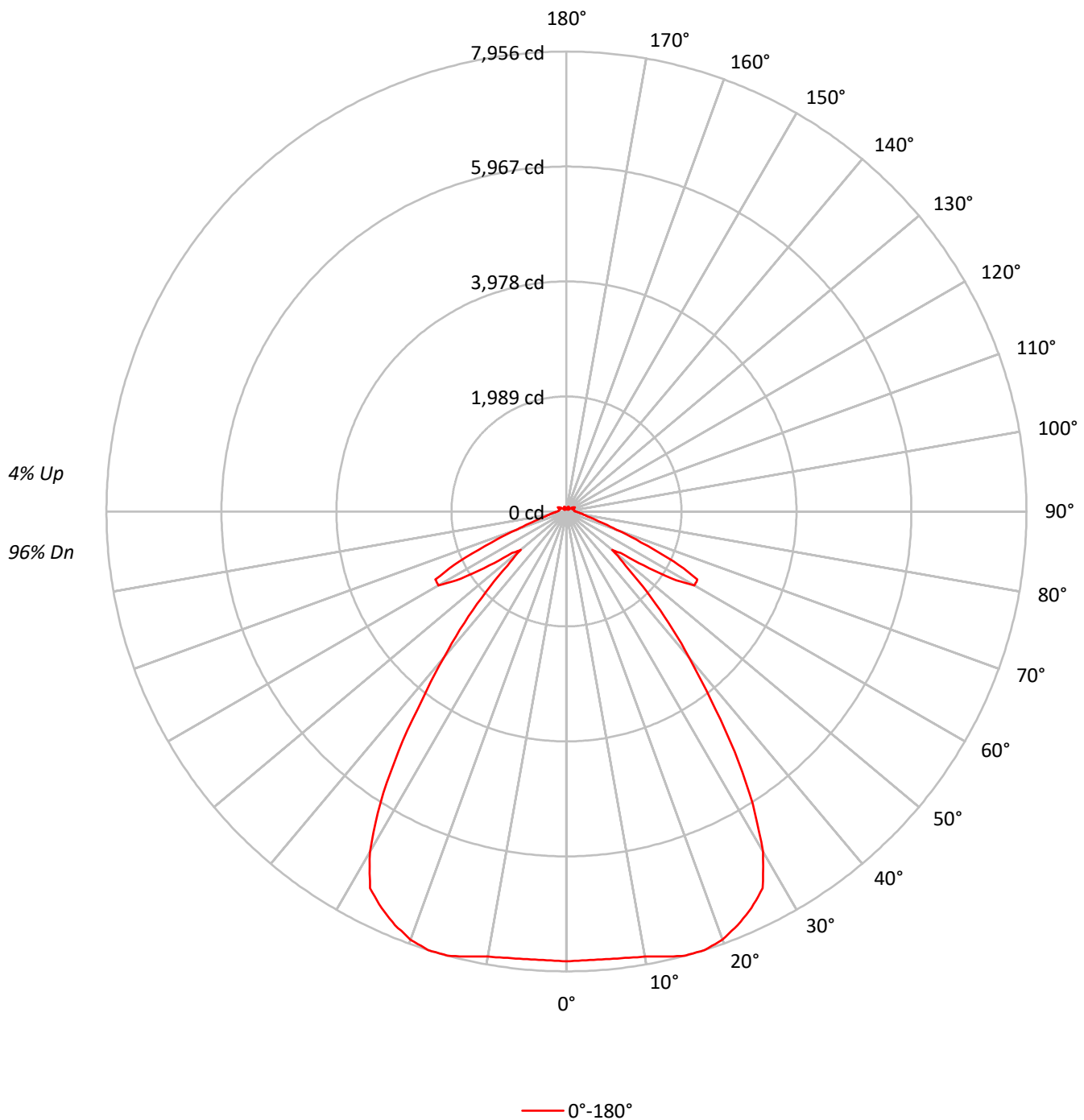
Lumens per Lamp: N/A
Luminaire Lumens: 15990.4 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.1
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')
CIE Type: Direct

Input Watts (W): 100.1
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: P1221225

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (3500K_L16_Wide_120V)

Luminous Intensity Polar Plot



TEST NUMBER: P1221225

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (3500K_L16_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°	42543
5°	40761
10°	39651
15°	39363
20°	38363
25°	36535
30°	32775
35°	24611
40°	16258
45°	9900
50°	5355
55°	8783
60°	14491
65°	12318
70°	5908
75°	3189
80°	2275
85°	1857

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 62.5°
Luminance: 14903 cd/sqm

TEST NUMBER: P1221225

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (3500K_L16_Wide_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.6	4.7
10°-20°	2244.2	14.0
20°-30°	3459.0	21.6
30°-40°	3127.4	19.6
40°-50°	1550.1	9.7
50°-60°	1531.7	9.6
60°-70°	1907.7	11.9
70°-80°	535.1	3.3
80°-90°	235.4	1.5
90°-100°	150.3	0.9
100°-110°	133.0	0.8
110°-120°	145.5	0.9
120°-130°	90.9	0.6
130°-140°	35.9	0.2
140°-150°	38.4	0.2
150°-160°	38.7	0.2
160°-170°	19.4	0.1
170°-180°	4.2	0.0
0°-30°	6446.8	40.3
0°-40°	9574.2	59.9
0°-60°	12655.9	79.1
0°-90°	15334.1	95.9
90°-120°	428.9	2.7
90°-150°	594.1	3.7
90°-180°	656.0	4.1
0°-180°	15990.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7782	
5°	7776	744
15°	7954	2244
25°	7571	3459
35°	5072	3127
45°	1967	1550
55°	1627	1532
65°	2047	1908
75°	453	535
85°	211	189
90°	155	87
95°	134	110
105°	131	133
115°	163	146
125°	99	91
135°	43	36
145°	62	38
155°	85	39
165°	68	19
175°	40	4
180°	37	

TEST NUMBER: P1221225

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (3500K_L16_Wide_120V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	7782
2.5°	7770
5°	7776
7.5°	7790
10°	7818
12.5°	7889
15°	7954
17.5°	7956
20°	7881
22.5°	7744
25°	7571
27.5°	7350
30°	6799
32.5°	5992
35°	5072
37.5°	4081
40°	3303
42.5°	2614
45°	1967
47.5°	1386
50°	1032
52.5°	1179
55°	1627
57.5°	2164
60°	2556
62.5°	2555
65°	2047
67.5°	1399
70°	914
72.5°	626
75°	453
77.5°	350
80°	292
82.5°	248
85°	211
87.5°	181
90°	155
92.5°	142
95°	134
97.5°	131
100°	133
102.5°	134
105°	131
107.5°	116
110°	110

TEST NUMBER: P1221225

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (3500K_L16_Wide_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	135
115°	163
117.5°	162
120°	145
122.5°	123
125°	99
127.5°	77
130°	61
132.5°	50
135°	43
137.5°	40
140°	42
142.5°	49
145°	62
147.5°	75
150°	82
152.5°	85
155°	85
157.5°	83
160°	80
162.5°	75
165°	68
167.5°	59
170°	51
172.5°	44
175°	40
177.5°	38
180°	37

TEST NUMBER: P1221225

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (3500K_L16_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	19.93	21.28	20.37	21.68	22.10	19.93	21.28	20.37	21.68	22.10
	3H	21.06	22.27	21.51	22.69	23.15	21.06	22.27	21.51	22.69	23.15
	4H	21.16	22.31	21.63	22.74	23.22	21.16	22.31	21.63	22.74	23.22
	6H	21.20	22.26	21.69	22.71	23.20	21.20	22.26	21.69	22.71	23.20
	8H	21.21	22.22	21.71	22.69	23.19	21.21	22.22	21.71	22.69	23.19
	12H	21.22	22.18	21.72	22.64	23.17	21.22	22.18	21.72	22.64	23.17
4H	2H	20.71	21.85	21.18	22.29	22.77	20.71	21.85	21.18	22.29	22.77
	3H	21.75	22.70	22.23	23.19	23.69	21.75	22.70	22.23	23.19	23.69
	4H	21.87	22.73	22.37	23.23	23.76	21.87	22.73	22.37	23.23	23.76
	6H	21.95	22.70	22.48	23.22	23.77	21.95	22.70	22.48	23.22	23.77
	8H	21.97	22.67	22.50	23.19	23.75	21.97	22.67	22.50	23.19	23.75
	12H	22.00	22.62	22.55	23.17	23.74	22.00	22.62	22.55	23.17	23.74
8H	4H	21.86	22.55	22.39	23.07	23.64	21.86	22.55	22.39	23.07	23.64
	6H	21.97	22.54	22.54	23.10	23.68	21.97	22.54	22.54	23.10	23.68
	8H	22.02	22.52	22.61	23.11	23.69	22.02	22.52	22.61	23.11	23.69
	12H	22.10	22.53	22.68	23.10	23.75	22.10	22.53	22.68	23.10	23.75
12H	4H	21.83	22.45	22.38	23.00	23.57	21.83	22.45	22.38	23.00	23.57
	6H	21.95	22.45	22.53	23.03	23.62	21.95	22.45	22.53	23.03	23.62
	8H	22.03	22.47	22.61	23.03	23.69	22.03	22.47	22.61	23.03	23.69