

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: P1221226

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (3500K_L18_Medium_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221226
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-15)
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_L18_Medium_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, CLEAR SHADE, MEDIUM DISTRIBUTION.
LIGHT LEVEL 1 - 18,000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

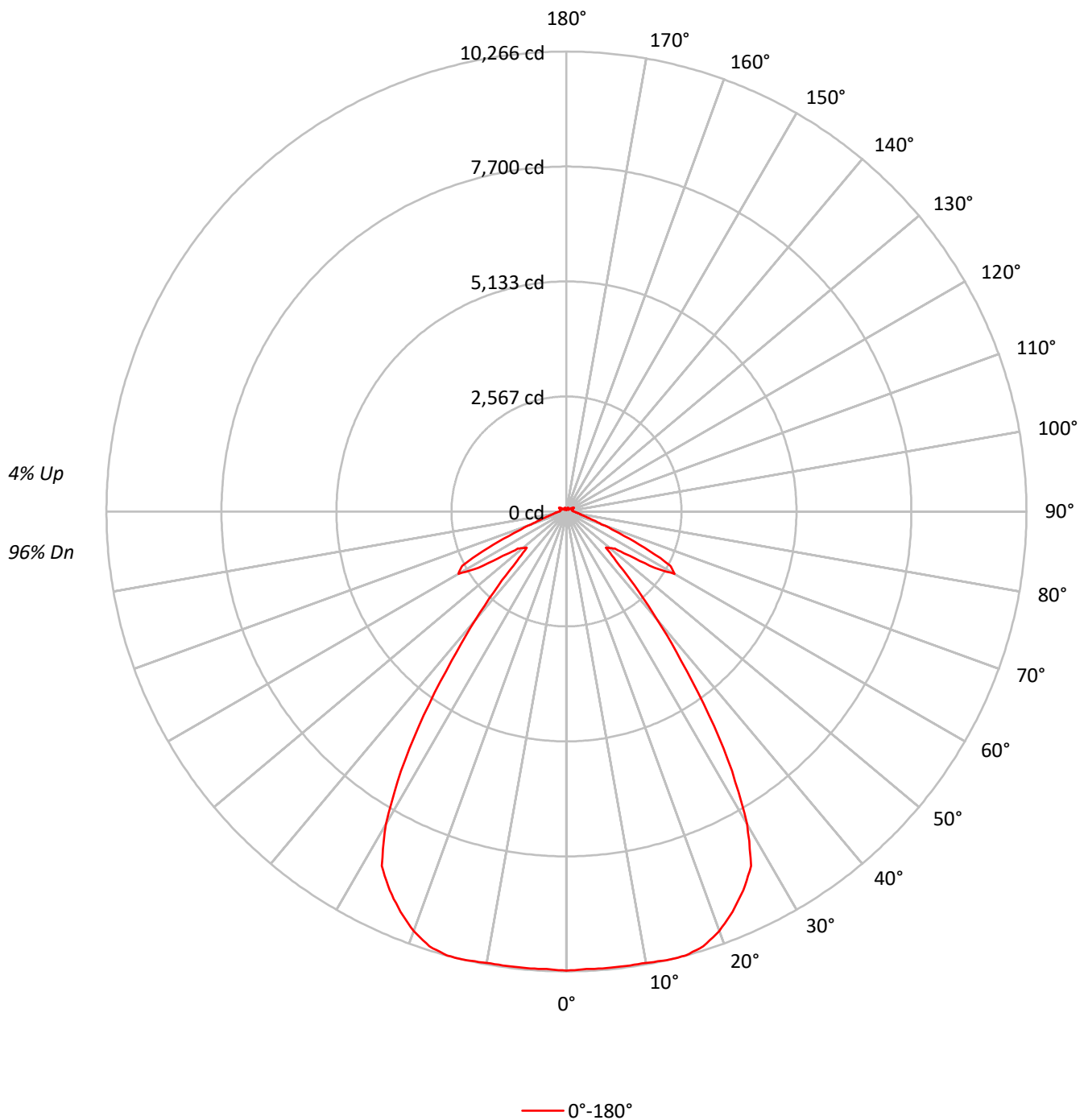
Lumens per Lamp: N/A
Luminaire Lumens: 17926.6 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.04
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	98	98			
1	110	106	102	99	107	103	100	97	98	96	93	94	92	90	90	88	86	86	86	86	86	84			
2	101	95	89	84	99	92	87	83	88	84	80	85	81	78	81	78	76	76	76	76	76	73			
3	94	85	78	73	91	83	77	72	80	75	70	77	72	68	74	70	67	67	67	67	67	65			
4	87	77	70	64	85	76	69	63	73	67	62	70	65	61	68	63	60	60	60	60	60	58			
5	81	70	63	57	79	69	62	56	67	60	56	64	59	55	62	58	54	54	54	54	54	52			
6	76	65	57	51	74	64	56	51	61	55	50	59	54	50	58	53	49	49	49	49	49	47			
7	71	60	52	47	70	59	51	46	57	50	46	55	49	45	54	49	45	45	45	45	45	43			
8	67	55	48	43	66	54	47	42	53	47	42	51	46	42	50	45	41	41	41	41	41	39			
9	63	51	44	39	62	51	44	39	49	43	39	48	42	38	47	42	38	38	38	38	38	36			
10	60	48	41	36	59	47	41	36	46	40	36	45	40	36	44	39	35	35	35	35	35	34			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	56034
5°	53648
10°	51883
15°	50805
20°	48511
25°	45043
30°	38879
35°	26919
40°	15489
45°	7816
50°	6578
55°	9361
60°	15792
65°	11561
70°	5420
75°	2988
80°	2232
85°	1852

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 60°

Luminance: 15792 cd/sgm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	976.8	5.4
10°-20°	2888.2	16.1
20°-30°	4252.2	23.7
30°-40°	3429.0	19.1
40°-50°	1373.4	7.7
50°-60°	1688.0	9.4
60°-70°	1876.0	10.5
70°-80°	501.1	2.8
80°-90°	233.9	1.3
90°-100°	154.7	0.9
100°-110°	137.3	0.8
110°-120°	164.8	0.9
120°-130°	102.5	0.6
130°-140°	41.0	0.2
140°-150°	42.1	0.2
150°-160°	41.0	0.2
160°-170°	20.5	0.1
170°-180°	4.1	0.0
0°-30°	8117.2	45.3
0°-40°	11546.2	64.4
0°-60°	14607.6	81.5
0°-90°	17218.7	96.1
90°-120°	456.7	2.5
90°-150°	642.3	3.6
90°-180°	708.0	3.9
0°-180°	17926.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10250	
5°	10235	977
15°	10266	2888
25°	9334	4252
35°	5548	3429
45°	1553	1373
55°	1734	1688
65°	1921	1876
75°	424	501
85°	210	188
90°	156	87
95°	138	114
105°	133	137
115°	187	165
125°	111	102
135°	49	41
145°	69	42
155°	90	41
165°	71	20
175°	40	4
180°	36	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	10249.8
2.5°	10226.4
5°	10234.6
7.5°	10234.6
10°	10229.9
12.5°	10263.8
15°	10266.1
17.5°	10174.9
20°	9965.6
22.5°	9675.6
25°	9334.1
27.5°	8924.8
30°	8065.3
32.5°	6873.7
35°	5547.6
37.5°	4202.8
40°	3146.8
42.5°	2246.4
45°	1553.0
47.5°	1195.1
50°	1267.6
52.5°	1363.5
55°	1734.2
57.5°	2337.6
60°	2785.5
62.5°	2614.8
65°	1921.3
67.5°	1268.8
70°	838.5
72.5°	581.2
75°	424.5
77.5°	334.4
80°	286.5
82.5°	246.7
85°	210.5
87.5°	180.1
90°	155.5
92.5°	145.0
95°	138.0
97.5°	136.8
100°	139.2
102.5°	140.3
105°	133.3
107.5°	116.9
110°	116.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	152.0
115°	187.1
117.5°	185.9
120°	163.7
122.5°	138.0
125°	111.1
127.5°	87.7
130°	69.0
132.5°	57.3
135°	49.1
137.5°	45.6
140°	47.9
142.5°	56.1
145°	69.0
147.5°	79.5
150°	85.4
152.5°	88.9
155°	90.0
157.5°	90.0
160°	86.5
162.5°	80.7
165°	71.3
167.5°	60.8
170°	50.3
172.5°	43.3
175°	39.8
177.5°	37.4
180°	36.3

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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	20.15	21.45	20.59	21.85	22.26	20.15	21.45	20.59	21.85	22.26
	3H	20.95	22.11	21.39	22.53	22.99	20.95	22.11	21.39	22.53	22.99
	4H	21.02	22.11	21.49	22.54	23.02	21.02	22.11	21.49	22.54	23.02
	6H	21.04	22.05	21.52	22.49	22.99	21.04	22.05	21.52	22.49	22.99
	8H	21.04	22.00	21.54	22.47	22.97	21.04	22.00	21.54	22.47	22.97
	12H	21.05	21.96	21.54	22.42	22.95	21.05	21.96	21.54	22.42	22.95
4H	2H	20.71	21.81	21.18	22.24	22.72	20.71	21.81	21.18	22.24	22.72
	3H	21.49	22.40	21.97	22.88	23.38	21.49	22.40	21.97	22.88	23.38
	4H	21.58	22.40	22.08	22.89	23.43	21.58	22.40	22.08	22.89	23.43
	6H	21.64	22.35	22.17	22.87	23.42	21.64	22.35	22.17	22.87	23.42
	8H	21.66	22.32	22.19	22.84	23.40	21.66	22.32	22.19	22.84	23.40
	12H	21.68	22.27	22.23	22.82	23.38	21.68	22.27	22.23	22.82	23.38
8H	4H	21.54	22.20	22.07	22.72	23.28	21.54	22.20	22.07	22.72	23.28
	6H	21.64	22.17	22.20	22.74	23.31	21.64	22.17	22.20	22.74	23.31
	8H	21.68	22.16	22.27	22.74	23.32	21.68	22.16	22.27	22.74	23.32
	12H	21.75	22.16	22.33	22.73	23.38	21.75	22.16	22.33	22.73	23.38
12H	4H	21.51	22.10	22.06	22.65	23.21	21.51	22.10	22.06	22.65	23.21
	6H	21.61	22.09	22.19	22.67	23.25	21.61	22.09	22.19	22.67	23.25
	8H	21.69	22.10	22.27	22.66	23.32	21.69	22.10	22.27	22.66	23.32