

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: P1221426

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (5000K_L36_Wide_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221426
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (5000K_L36_Wide_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, CLEAR SHADE, WIDE DISTRIBUTION.
LIGHT LEVEL 1 - 36,000 LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

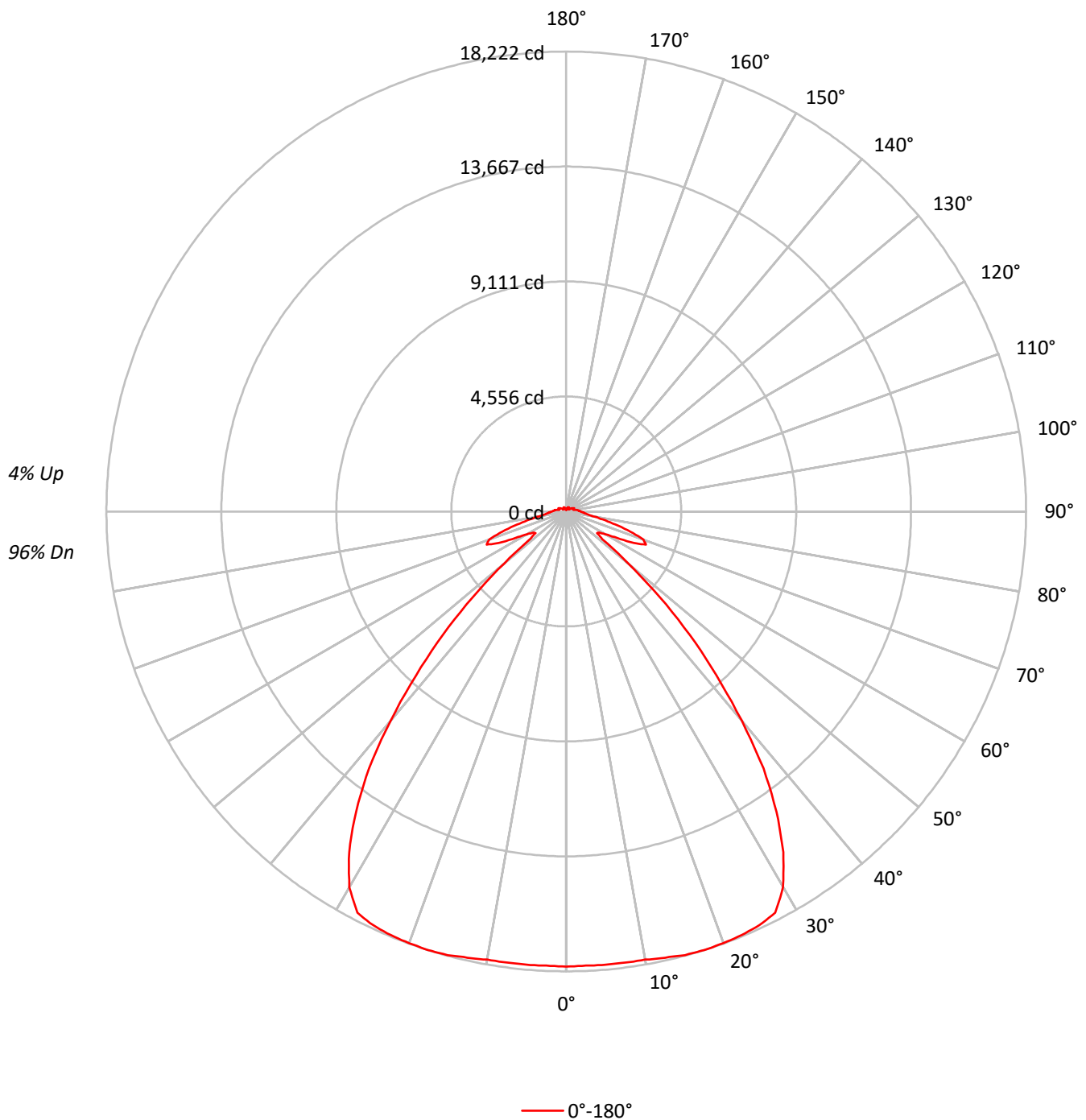
Lumens per Lamp: N/A
Luminaire Lumens: 38464.2 lumens
Efficiency: N/A
Efficacy: 167.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.21
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

Input Watts (W): 230.2
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	0		
RCR																				
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96		
1	109	105	101	97	106	102	99	95	97	94	92	93	90	88	88	87	85	83		
2	101	93	87	82	98	91	86	81	87	83	79	83	80	76	80	77	74	72		
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	65	63		
4	87	76	68	63	84	75	67	62	72	66	61	69	64	59	66	62	58	56		
5	81	69	61	56	78	68	61	55	66	59	54	63	58	53	61	56	52	50		
6	75	63	56	50	73	62	55	50	60	54	49	58	52	48	56	51	47	45		
7	70	58	51	45	69	57	50	45	56	49	44	54	48	44	52	47	43	41		
8	66	54	46	41	64	53	46	41	51	45	40	50	44	40	49	43	39	38		
9	62	50	43	37	61	49	42	37	48	41	37	46	41	37	45	40	36	34		
10	58	46	39	34	57	46	39	34	45	38	34	43	38	34	42	37	33	32		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	103992
5°	99286
10°	95722
15°	93900
20°	92070
25°	90423
30°	85561
35°	72516
40°	54558
45°	35580
50°	16857
55°	8118
60°	10311
65°	17925
70°	21000
75°	14081
80°	8295
85°	6148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 35580 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1720.9	4.5
10°-20°	5150.5	13.4
20°-30°	8307.4	21.6
30°-40°	8932.5	23.2
40°-50°	5291.7	13.8
50°-60°	1638.3	4.3
60°-70°	2781.3	7.2
70°-80°	2189.2	5.7
80°-90°	821.9	2.1
90°-100°	518.3	1.3
100°-110°	322.2	0.8
110°-120°	305.2	0.8
120°-130°	147.8	0.4
130°-140°	102.5	0.3
140°-150°	114.1	0.3
150°-160°	79.5	0.2
160°-170°	33.9	0.1
170°-180°	7.1	0.0
0°-30°	15178.8	39.5
0°-40°	24111.3	62.7
0°-60°	31041.3	80.7
0°-90°	36833.7	95.8
90°-120°	1145.7	3.0
90°-150°	1510.1	3.9
90°-180°	1631.0	4.2
0°-180°	38464.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18034	
5°	18031	###
15°	18195	5150
25°	18089	8307
35°	14521	8932
45°	6915	5292
55°	1482	1638
65°	2962	2781
75°	2012	2189
85°	714	656
90°	567	315
95°	474	370
105°	273	322
115°	325	305
125°	156	148
135°	127	103
145°	186	114
155°	174	79
165°	116	34
175°	70	7
180°	69	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	18034.3
2.5°	18011.7
5°	18030.7
7.5°	18028.3
10°	18034.3
12.5°	18105.7
15°	18195.0
17.5°	18222.4
20°	18198.6
22.5°	18170.0
25°	18089.0
27.5°	17930.7
30°	17190.2
32.5°	16010.5
35°	14521.2
37.5°	12842.7
40°	10805.8
42.5°	8808.2
45°	6915.4
47.5°	5024.9
50°	3189.2
52.5°	1800.0
55°	1482.1
57.5°	1567.8
60°	1800.0
62.5°	2254.7
65°	2961.9
67.5°	3421.4
70°	3247.6
72.5°	2667.8
75°	2011.9
77.5°	1467.8
80°	1078.6
82.5°	832.1
85°	714.3
87.5°	646.4
90°	566.7
92.5°	516.7
95°	473.8
97.5°	434.5
100°	382.1
102.5°	316.7
105°	272.6
107.5°	277.4
110°	319.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	342.9
115°	325.0
117.5°	282.1
120°	235.7
122.5°	191.7
125°	156.0
127.5°	131.0
130°	115.5
132.5°	114.3
135°	127.4
137.5°	148.8
140°	169.0
142.5°	182.1
145°	185.7
147.5°	184.5
150°	180.9
152.5°	178.6
155°	173.8
157.5°	165.5
160°	150.0
162.5°	134.5
165°	115.5
167.5°	97.6
170°	82.1
172.5°	73.8
175°	70.2
177.5°	69.0
180°	69.0

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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	14.70	16.00	15.14	16.41	16.83	14.70	16.00	15.14	16.41	16.83
	3H	21.64	22.82	22.10	23.24	23.71	21.64	22.82	22.10	23.24	23.71
	4H	22.65	23.76	23.13	24.19	24.68	22.65	23.76	23.13	24.19	24.68
	6H	23.06	24.08	23.55	24.54	25.04	23.06	24.08	23.55	24.54	25.04
	8H	23.16	24.14	23.66	24.61	25.12	23.16	24.14	23.66	24.61	25.12
	12H	23.25	24.18	23.75	24.64	25.18	23.25	24.18	23.75	24.64	25.18
4H	2H	17.24	18.35	17.72	18.79	19.27	17.24	18.35	17.72	18.79	19.27
	3H	22.83	23.76	23.31	24.24	24.75	22.83	23.76	23.31	24.24	24.75
	4H	23.81	24.65	24.32	25.15	25.69	23.81	24.65	24.32	25.15	25.69
	6H	24.27	25.00	24.79	25.52	26.08	24.27	25.00	24.79	25.52	26.08
	8H	24.38	25.07	24.92	25.59	26.16	24.38	25.07	24.92	25.59	26.16
	12H	24.49	25.11	25.05	25.66	26.23	24.49	25.11	25.05	25.66	26.23
8H	4H	24.09	24.77	24.62	25.30	25.86	24.09	24.77	24.62	25.30	25.86
	6H	24.60	25.17	25.17	25.74	26.31	24.60	25.17	25.17	25.74	26.31
	8H	24.77	25.28	25.36	25.86	26.45	24.77	25.28	25.36	25.86	26.45
	12H	24.95	25.39	25.53	25.96	26.62	24.95	25.39	25.53	25.96	26.62
12H	4H	24.08	24.69	24.63	25.25	25.82	24.08	24.69	24.63	25.25	25.82
	6H	24.61	25.12	25.20	25.70	26.29	24.61	25.12	25.20	25.70	26.29
	8H	24.82	25.27	25.40	25.84	26.50	24.82	25.27	25.40	25.84	26.50