

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: P1221355

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-BLAK-08 (3500K_L24_Medium_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221355
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS2-2436-MV-L8C5-BLAK-08 (3500K_L24_Medium_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, BLACK SHADE, MEDIUM DISTRIBUTION.
LIGHT LEVEL 1 - 24,000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

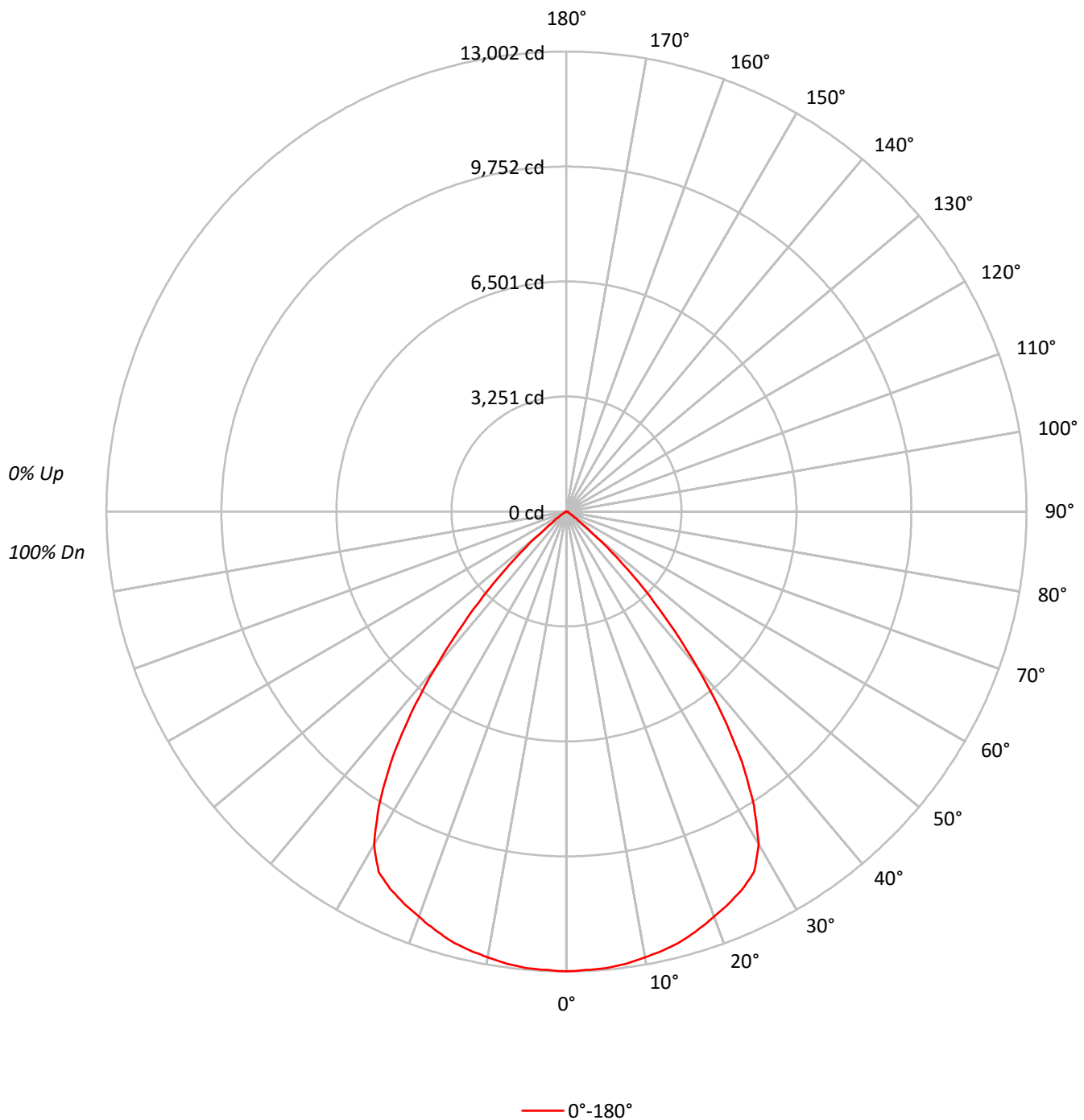
Lumens per Lamp: N/A
Luminaire Lumens: 18244.5 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

Input Watts (W): 154.6
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

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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92								
2	107	101	97	93	104	100	95	92	96	93	90	93	90	88	90	88	86	84								
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77								
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71								
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65								
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59								
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	54								
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50								
9	70	60	53	49	69	59	53	48	58	52	48	57	52	48	56	51	48	46								
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	44	43								

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	74975
5°	71361
10°	67937
15°	64908
20°	61687
25°	58867
30°	54107
35°	43152
40°	29057
45°	15846
50°	5000
55°	1395
60°	359
65°	234
70°	224
75°	208
80°	165
85°	99

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15846 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1231.9	6.8
10°-20°	3546.7	19.4
20°-30°	5399.0	29.6
30°-40°	5284.3	29.0
40°-50°	2410.1	13.2
50°-60°	288.1	1.6
60°-70°	41.8	0.2
70°-80°	30.7	0.2
80°-90°	12.1	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10177.6	55.8
0°-40°	15461.8	84.7
0°-60°	18159.9	99.5
0°-90°	18244.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18244.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13002	
5°	12959	###
15°	12577	3547
25°	11776	5399
35°	8641	5284
45°	3080	2410
55°	255	288
65°	39	42
75°	30	31
85°	12	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	13002.2
2.5°	12974.2
5°	12959.3
7.5°	12900.0
10°	12799.5
12.5°	12702.3
15°	12577.1
17.5°	12395.8
20°	12193.1
22.5°	11997.8
25°	11776.2
27.5°	11491.1
30°	10870.7
32.5°	9859.0
35°	8641.2
37.5°	7236.4
40°	5755.0
42.5°	4327.2
45°	3079.8
47.5°	1951.9
50°	945.9
52.5°	430.9
55°	254.6
57.5°	124.4
60°	62.6
62.5°	44.5
65°	38.7
67.5°	37.1
70°	34.6
72.5°	32.1
75°	29.7
77.5°	26.4
80°	21.4
82.5°	16.5
85°	11.5
87.5°	5.8
90°	0.0

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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	0.00	0.97	0.26	1.28	1.60	0.00	0.97	0.26	1.28	1.60
	3H	0.16	1.11	0.54	1.44	1.81	0.16	1.11	0.54	1.44	1.81
	4H	0.34	1.22	0.75	1.57	1.96	0.34	1.22	0.75	1.57	1.96
	6H	0.51	1.31	0.92	1.68	2.08	0.51	1.31	0.92	1.68	2.08
	8H	0.55	1.30	0.98	1.69	2.10	0.55	1.30	0.98	1.69	2.10
	12H	0.56	1.27	0.99	1.66	2.09	0.56	1.27	0.99	1.66	2.09
4H	2H	0.00	0.63	0.16	0.98	1.37	0.00	0.63	0.16	0.98	1.37
	3H	0.17	0.88	0.58	1.28	1.69	0.17	0.88	0.58	1.28	1.69
	4H	0.45	1.08	0.89	1.50	1.95	0.45	1.08	0.89	1.50	1.95
	6H	0.73	1.27	1.20	1.72	2.19	0.73	1.27	1.20	1.72	2.19
	8H	0.81	1.31	1.28	1.76	2.23	0.81	1.31	1.28	1.76	2.23
	12H	0.84	1.28	1.33	1.77	2.24	0.84	1.28	1.33	1.77	2.24
8H	4H	0.46	0.97	0.94	1.42	1.89	0.46	0.97	0.94	1.42	1.89
	6H	0.82	1.22	1.33	1.72	2.21	0.82	1.22	1.33	1.72	2.21
	8H	0.94	1.30	1.47	1.82	2.32	0.94	1.30	1.47	1.82	2.32
	12H	1.03	1.35	1.55	1.84	2.42	1.03	1.35	1.55	1.84	2.42
12H	4H	0.43	0.87	0.92	1.36	1.83	0.43	0.87	0.92	1.36	1.83
	6H	0.80	1.16	1.33	1.68	2.18	0.80	1.16	1.33	1.68	2.18
	8H	0.96	1.27	1.48	1.77	2.35	0.96	1.27	1.48	1.77	2.35

END OF REPORT