

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: P1221490

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

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221490
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS2-2436-MV-L8C5-WHTE-08 (3500K_L24_Medium_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, WHITE SHADE, MEDIUM DISTRIBUTION.
LIGHT LEVEL 1 - 24,000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

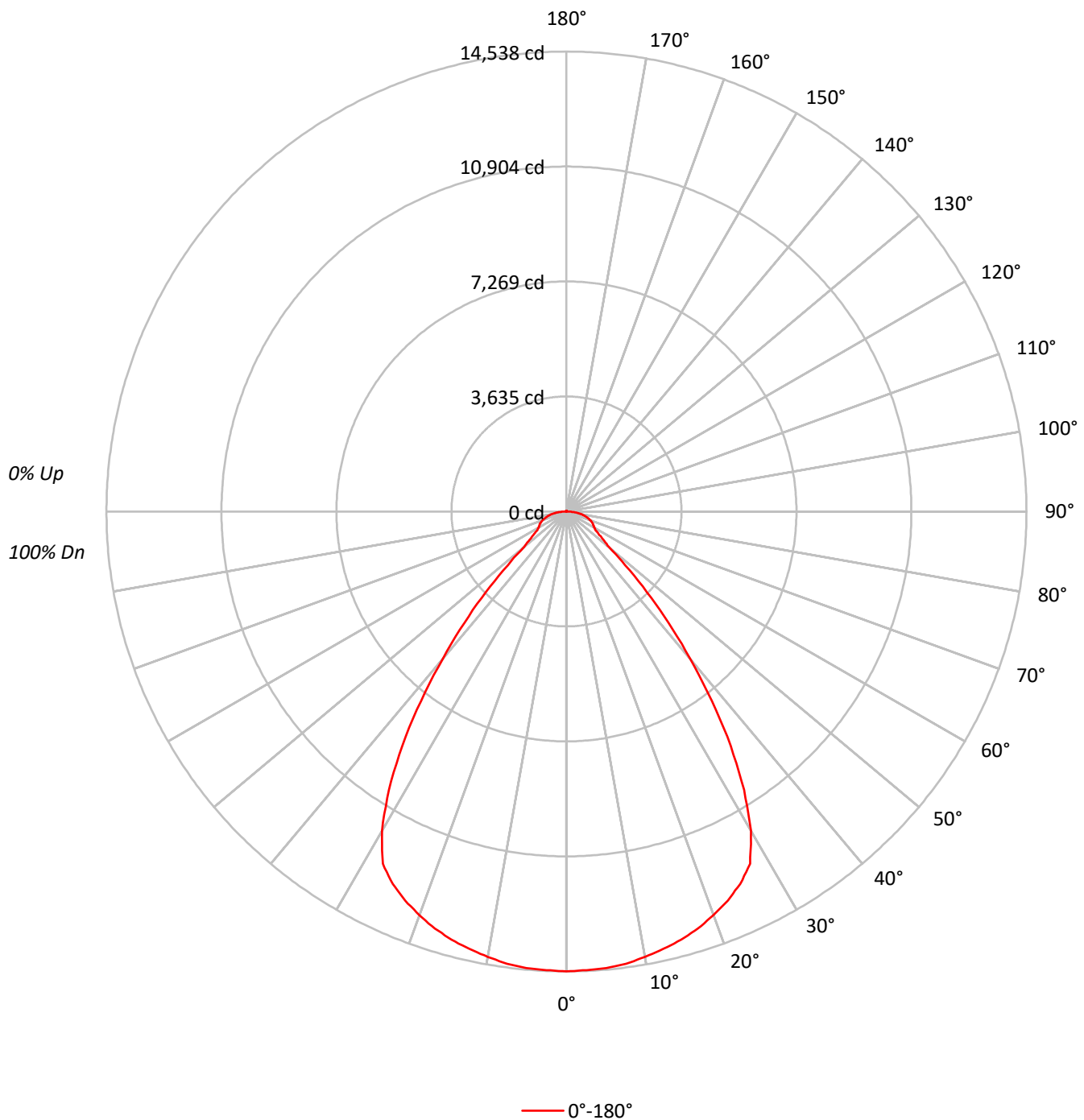
Lumens per Lamp: N/A
Luminaire Lumens: 22689.0 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.1
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

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			
RW	70	50	30	10	70	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	111	108	104	102	109	106	103	100	101	99	97	97	96	94	94	92	91	89		
2	104	98	93	88	102	96	91	87	92	89	85	89	86	83	86	84	81	79		
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71		
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64		
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	63	59	55	53		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	67	55	48	44	65	55	48	43	54	48	43	53	47	43	52	47	43	41		
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	83831
5°	79772
10°	75870
15°	72319
20°	68711
25°	64930
30°	58031
35°	45189
40°	30663
45°	18491
50°	9233
55°	6796
60°	5805
65°	5570
70°	5141
75°	4475
80°	3435
85°	1887

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18491 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1376.9	6.1
10°-20°	3954.1	17.4
20°-30°	5933.6	26.2
30°-40°	5570.1	24.5
40°-50°	2816.8	12.4
50°-60°	1154.3	5.1
60°-70°	905.3	4.0
70°-80°	668.0	2.9
80°-90°	240.1	1.1
90°-100°	6.8	0.0
100°-110°	7.1	0.0
110°-120°	7.4	0.0
120°-130°	7.7	0.0
130°-140°	9.4	0.0
140°-150°	12.4	0.1
150°-160°	11.0	0.0
160°-170°	5.9	0.0
170°-180°	2.1	0.0
0°-30°	11264.5	49.6
0°-40°	16834.6	74.2
0°-60°	20805.8	91.7
0°-90°	22619.2	99.7
90°-120°	21.3	0.1
90°-150°	50.8	0.2
90°-180°	70.0	0.3
0°-180°	22689.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14538	
5°	14487	###
15°	14013	3954
25°	12989	5934
35°	9049	5570
45°	3594	2817
55°	1241	1154
65°	920	905
75°	639	668
85°	219	226
90°	7	16
95°	6	5
105°	7	7
115°	7	7
125°	8	8
135°	12	9
145°	20	12
155°	24	11
165°	21	6
175°	21	2
180°	24	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	14538.0
2.5°	14512.4
5°	14486.9
7.5°	14419.3
10°	14294.1
12.5°	14164.7
15°	14013.1
17.5°	13822.8
20°	13581.4
22.5°	13312.0
25°	12989.0
27.5°	12560.6
30°	11659.2
32.5°	10443.1
35°	9049.1
37.5°	7550.4
40°	6073.1
42.5°	4767.2
45°	3593.9
47.5°	2517.9
50°	1746.7
52.5°	1464.9
55°	1240.8
57.5°	1089.2
60°	1013.4
62.5°	966.5
65°	920.3
67.5°	862.6
70°	795.1
72.5°	721.7
75°	639.4
77.5°	548.7
80°	446.6
82.5°	337.8
85°	219.2
87.5°	98.9
90°	6.6
92.5°	5.8
95°	5.8
97.5°	6.6
100°	6.6
102.5°	6.6
105°	6.6
107.5°	6.6
110°	7.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	7.4
115°	7.4
117.5°	7.4
120°	8.2
122.5°	8.2
125°	8.2
127.5°	9.1
130°	9.9
132.5°	10.7
135°	12.4
137.5°	13.2
140°	15.7
142.5°	17.3
145°	19.8
147.5°	22.2
150°	24.7
152.5°	24.7
155°	23.9
157.5°	23.1
160°	21.4
162.5°	20.6
165°	20.6
167.5°	21.4
170°	21.4
172.5°	21.4
175°	21.4
177.5°	22.2
180°	23.9

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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	14.22	15.46	14.59	15.78	16.10	14.22	15.46	14.59	15.78	16.10
	3H	16.27	17.38	16.66	17.71	18.09	16.27	17.38	16.66	17.71	18.09
	4H	17.07	18.10	17.48	18.46	18.85	17.07	18.10	17.48	18.46	18.85
	6H	17.65	18.60	18.07	18.98	19.38	17.65	18.60	18.07	18.98	19.38
	8H	17.81	18.72	18.25	19.11	19.53	17.81	18.72	18.25	19.11	19.53
	12H	17.90	18.76	18.34	19.15	19.59	17.90	18.76	18.34	19.15	19.59
4H	2H	14.79	15.83	15.20	16.18	16.58	14.79	15.83	15.20	16.18	16.58
	3H	17.03	17.89	17.45	18.30	18.71	17.03	17.89	17.45	18.30	18.71
	4H	17.95	18.71	18.39	19.14	19.59	17.95	18.71	18.39	19.14	19.59
	6H	18.64	19.30	19.11	19.76	20.23	18.64	19.30	19.11	19.76	20.23
	8H	18.84	19.46	19.32	19.92	20.39	18.84	19.46	19.32	19.92	20.39
	12H	18.96	19.50	19.45	19.99	20.48	18.96	19.50	19.45	19.99	20.48
8H	4H	18.21	18.83	18.69	19.28	19.76	18.21	18.83	18.69	19.28	19.76
	6H	19.01	19.51	19.52	20.02	20.51	19.01	19.51	19.52	20.02	20.51
	8H	19.28	19.73	19.80	20.25	20.75	19.28	19.73	19.80	20.25	20.75
	12H	19.45	19.85	19.97	20.35	20.93	19.45	19.85	19.97	20.35	20.93
12H	4H	18.22	18.77	18.71	19.26	19.74	18.22	18.77	18.71	19.26	19.74
	6H	19.04	19.49	19.57	20.01	20.51	19.04	19.49	19.57	20.01	20.51
	8H	19.35	19.75	19.88	20.25	20.83	19.35	19.75	19.88	20.25	20.83