

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: P1221374

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-BLAK-08 (5000K_L24_Narrow_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221374
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-22)
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 (5000K_L24_Narrow_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, BLACK SHADE, NARROW DISTRIBUTION.
LIGHT LEVEL 1 - 24,000 LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

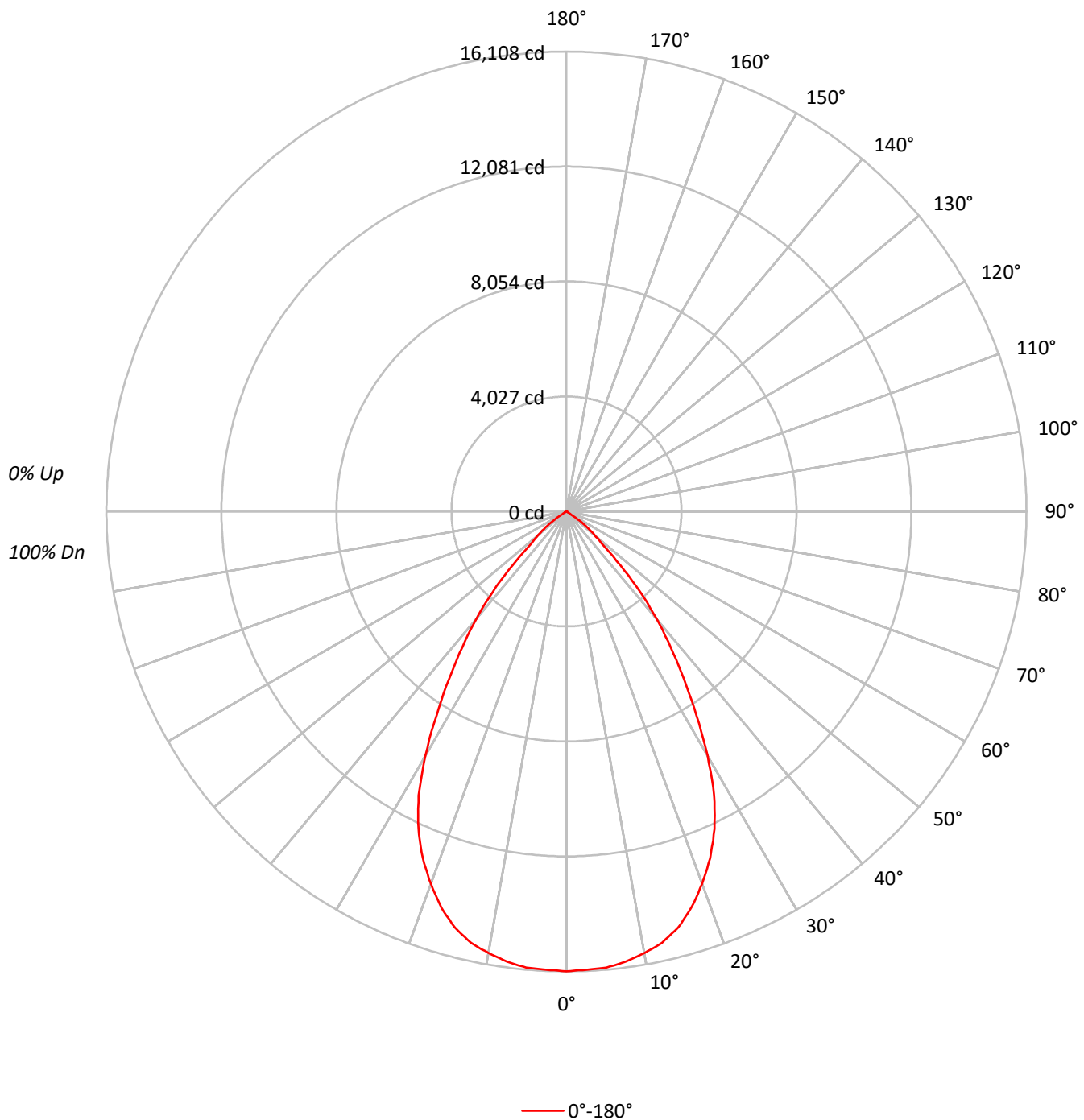
Lumens per Lamp: N/A
Luminaire Lumens: 18507.0 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	113	110	107	105	111	108	106	103	104	102	100		100	99	97		93
2	107	102	97	94	105	100	96	93	97	93	91		94	91	89		85
3	101	94	89	84	99	93	88	84	90	86	82		88	84	81		78
4	95	87	81	77	93	86	80	76	84	79	75		82	78	74		72
5	90	81	75	70	88	80	74	70	78	73	69		76	72	68		66
6	85	75	69	64	83	74	68	64	73	68	64		71	67	63		61
7	80	70	64	59	79	70	63	59	68	63	59		67	62	58		57
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		52
9	72	62	55	51	71	61	55	51	60	54	51		59	54	50		49
10	68	58	52	47	67	57	51	47	56	51	47		56	51	47		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	92887
5°	88311
10°	83383
15°	77881
20°	70255
25°	61330
30°	49158
35°	35803
40°	24728
45°	13732
50°	6839
55°	2597
60°	431
65°	210
70°	197
75°	171
80°	136
85°	80

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13732 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1520.0	8.2
10°-20°	4219.1	22.8
20°-30°	5558.9	30.0
30°-40°	4496.9	24.3
40°-50°	2136.4	11.5
50°-60°	500.3	2.7
60°-70°	40.0	0.2
70°-80°	25.5	0.1
80°-90°	10.0	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°	11297.9	61.0
0°-40°	15794.8	85.3
0°-60°	18431.5	99.6
0°-90°	18507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18507.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16108	
5°	16038	###
15°	15091	4219
25°	12269	5559
35°	7169	4497
45°	2669	2136
55°	474	500
65°	35	40
75°	24	26
85°	9	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	16108.5
2.5°	16062.9
5°	16037.5
7.5°	15909.0
10°	15709.6
12.5°	15467.0
15°	15090.9
17.5°	14550.9
20°	13886.6
22.5°	13143.7
25°	12269.0
27.5°	11207.5
30°	9876.4
32.5°	8472.6
35°	7169.4
37.5°	5992.1
40°	4897.6
42.5°	3822.6
45°	2669.0
47.5°	1659.9
50°	1293.9
52.5°	926.3
55°	474.1
57.5°	196.1
60°	75.2
62.5°	42.3
65°	34.7
67.5°	32.1
70°	30.4
72.5°	27.0
75°	24.5
77.5°	21.1
80°	17.7
82.5°	13.5
85°	9.3
87.5°	5.1
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	2.94	4.02	3.31	4.33	4.65	2.94	4.02	3.31	4.33	4.65
	3H	2.91	3.85	3.29	4.18	4.55	2.91	3.85	3.29	4.18	4.55
	4H	2.90	3.77	3.31	4.13	4.52	2.90	3.77	3.31	4.13	4.52
	6H	2.89	3.68	3.30	4.06	4.45	2.89	3.68	3.30	4.06	4.45
	8H	2.86	3.61	3.30	4.00	4.41	2.86	3.61	3.30	4.00	4.41
	12H	2.83	3.54	3.26	3.93	4.36	2.83	3.54	3.26	3.93	4.36
4H	2H	2.72	3.59	3.12	3.94	4.33	2.72	3.59	3.12	3.94	4.33
	3H	2.73	3.43	3.15	3.84	4.25	2.73	3.43	3.15	3.84	4.25
	4H	2.75	3.37	3.19	3.80	4.25	2.75	3.37	3.19	3.80	4.25
	6H	2.78	3.31	3.25	3.76	4.24	2.78	3.31	3.25	3.76	4.24
	8H	2.76	3.26	3.24	3.71	4.18	2.76	3.26	3.24	3.71	4.18
	12H	2.74	3.17	3.23	3.66	4.13	2.74	3.17	3.23	3.66	4.13
8H	4H	2.64	3.14	3.11	3.59	4.06	2.64	3.14	3.11	3.59	4.06
	6H	2.69	3.09	3.20	3.59	4.08	2.69	3.09	3.20	3.59	4.08
	8H	2.69	3.05	3.22	3.57	4.07	2.69	3.05	3.22	3.57	4.07
	12H	2.69	3.01	3.21	3.51	4.08	2.69	3.01	3.21	3.51	4.08
12H	4H	2.59	3.02	3.08	3.51	3.99	2.59	3.02	3.08	3.51	3.99
	6H	2.64	3.00	3.17	3.52	4.01	2.64	3.00	3.17	3.52	4.01
	8H	2.67	2.98	3.19	3.48	4.06	2.67	2.98	3.19	3.48	4.06

END OF REPORT