

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: P1221356

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-BLAK-08 (3500K_L24_Narrow_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221356
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 (3500K_L24_Narrow_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, BLACK SHADE, NARROW DISTRIBUTION.
LIGHT LEVEL 1 - 24,000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

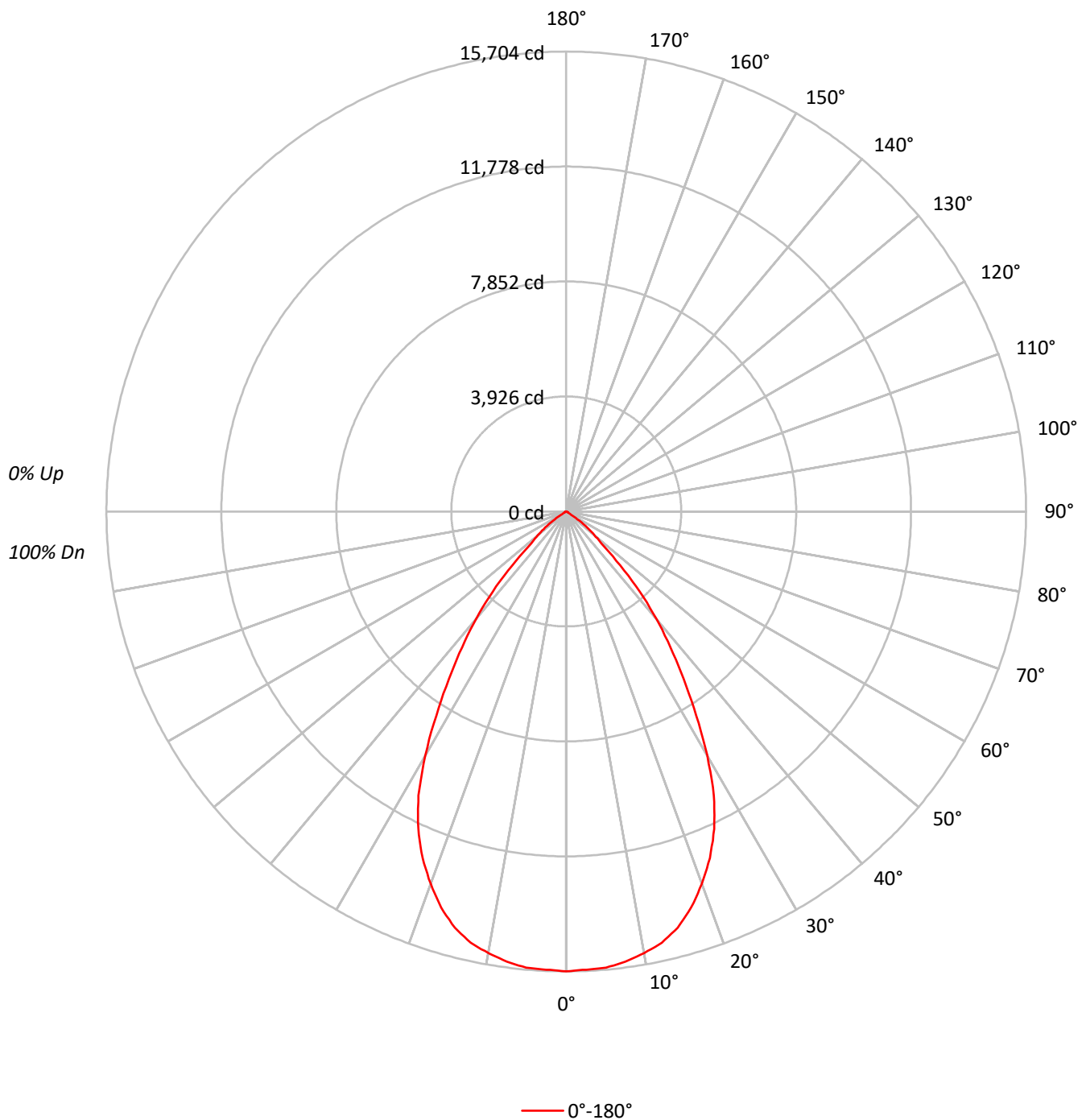
Lumens per Lamp: N/A
Luminaire Lumens: 18042.0 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

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	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54
9	72	62	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50
10	68	58	52	47	67	57	51	47	56	51	47	56	51	47	55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90553
5°	86092
10°	81288
15°	75924
20°	68490
25°	59790
30°	47923
35°	34903
40°	24107
45°	13387
50°	6667
55°	2532
60°	420
65°	205
70°	192
75°	167
80°	133
85°	78

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13387 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1481.8	8.2
10°-20°	4113.1	22.8
20°-30°	5419.3	30.0
30°-40°	4383.9	24.3
40°-50°	2082.7	11.5
50°-60°	487.7	2.7
60°-70°	38.9	0.2
70°-80°	24.9	0.1
80°-90°	9.8	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°	11014.1	61.0
0°-40°	15398.0	85.3
0°-60°	17968.4	99.6
0°-90°	18042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18042.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15704	
5°	15635	###
15°	14712	4113
25°	11961	5419
35°	6989	4384
45°	2602	2083
55°	462	488
65°	34	39
75°	24	25
85°	9	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	15703.8
2.5°	15659.3
5°	15634.6
7.5°	15509.4
10°	15314.9
12.5°	15078.5
15°	14711.8
17.5°	14185.3
20°	13537.7
22.5°	12813.5
25°	11960.8
27.5°	10925.9
30°	9628.3
32.5°	8259.7
35°	6989.3
37.5°	5841.6
40°	4774.6
42.5°	3726.6
45°	2601.9
47.5°	1618.2
50°	1261.4
52.5°	903.0
55°	462.2
57.5°	191.1
60°	73.3
62.5°	41.2
65°	33.8
67.5°	31.3
70°	29.7
72.5°	26.4
75°	23.9
77.5°	20.6
80°	17.3
82.5°	13.2
85°	9.1
87.5°	4.9
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	2.85	3.93	3.22	4.24	4.56	2.85	3.93	3.22	4.24	4.56
	3H	2.82	3.76	3.20	4.09	4.46	2.82	3.76	3.20	4.09	4.46
	4H	2.81	3.68	3.22	4.04	4.43	2.81	3.68	3.22	4.04	4.43
	6H	2.80	3.59	3.21	3.97	4.36	2.80	3.59	3.21	3.97	4.36
	8H	2.77	3.52	3.21	3.91	4.32	2.77	3.52	3.21	3.91	4.32
	12H	2.74	3.45	3.18	3.84	4.27	2.74	3.45	3.18	3.84	4.27
4H	2H	2.63	3.50	3.03	3.85	4.24	2.63	3.50	3.03	3.85	4.24
	3H	2.64	3.34	3.06	3.75	4.16	2.64	3.34	3.06	3.75	4.16
	4H	2.66	3.28	3.10	3.71	4.16	2.66	3.28	3.10	3.71	4.16
	6H	2.69	3.22	3.16	3.67	4.15	2.69	3.22	3.16	3.67	4.15
	8H	2.67	3.17	3.15	3.62	4.10	2.67	3.17	3.15	3.62	4.10
	12H	2.65	3.08	3.14	3.57	4.05	2.65	3.08	3.14	3.57	4.05
8H	4H	2.55	3.05	3.03	3.50	3.97	2.55	3.05	3.03	3.50	3.97
	6H	2.60	3.00	3.11	3.50	3.99	2.60	3.00	3.11	3.50	3.99
	8H	2.60	2.96	3.14	3.48	3.98	2.60	2.96	3.14	3.48	3.98
	12H	2.61	2.92	3.13	3.42	4.00	2.61	2.92	3.13	3.42	4.00
12H	4H	2.50	2.93	2.99	3.42	3.90	2.50	2.93	2.99	3.42	3.90
	6H	2.55	2.91	3.08	3.43	3.92	2.55	2.91	3.08	3.43	3.92
	8H	2.58	2.89	3.10	3.39	3.97	2.58	2.89	3.10	3.39	3.97