

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: P1221419

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

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221419
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-25)
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_L24_Narrow_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, CLEAR SHADE, NARROW DISTRIBUTION.
LIGHT LEVEL 1 - 24,000 LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

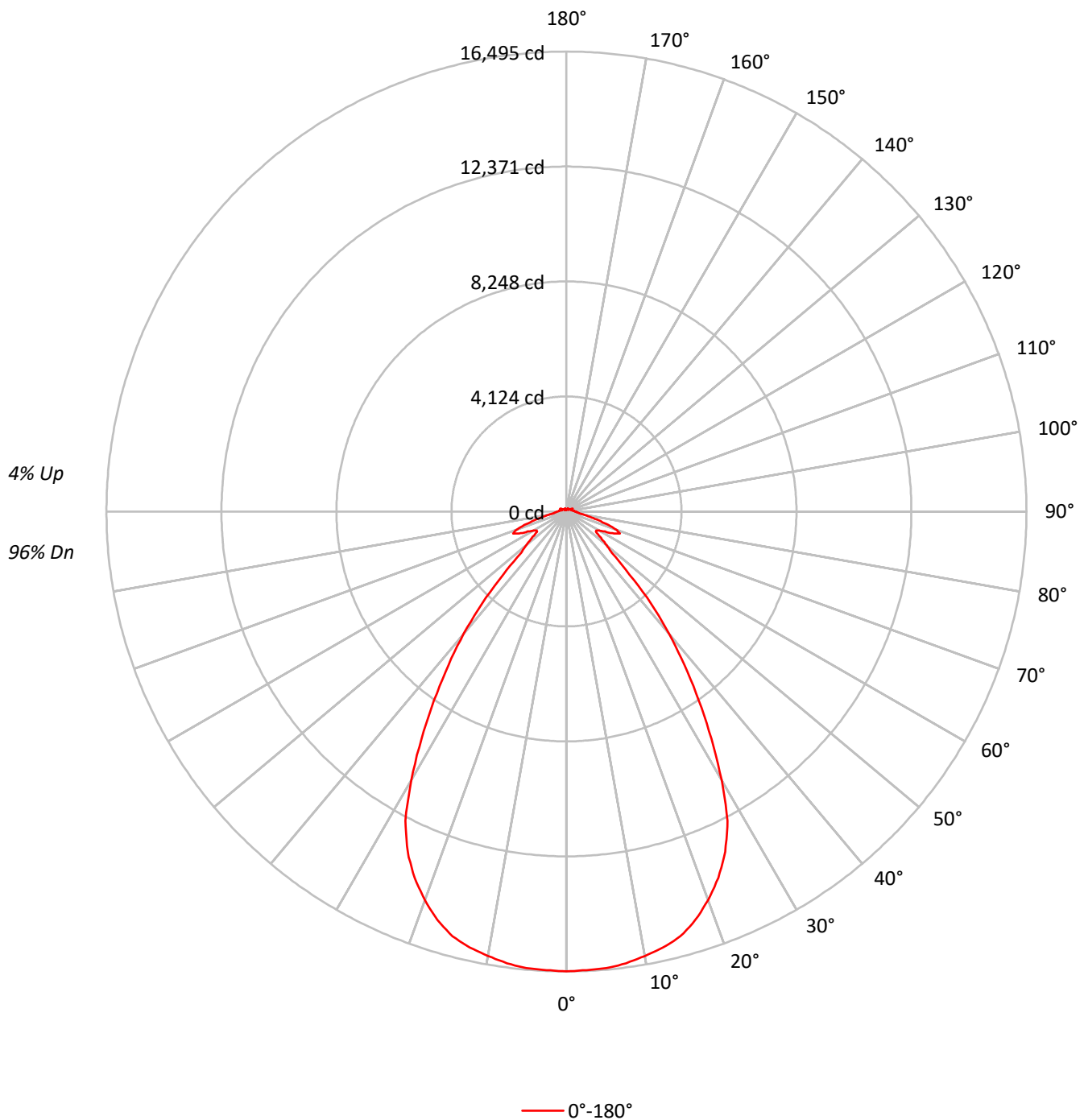
Lumens per Lamp: N/A
Luminaire Lumens: 25617.5 lumens
Efficiency: N/A
Efficacy: 165.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

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	50	30	10	50	30	10		
RCR																									
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	98	98			
1	110	106	102	99	107	103	100	97	98	95	93	94	91	90	89	88	86	86	86	86	86	84			
2	102	95	89	84	99	93	88	83	89	84	81	85	81	78	81	79	76	76	76	76	74	74			
3	95	86	79	74	92	84	78	73	81	76	71	78	73	70	75	71	68	68	68	68	66	66			
4	88	78	71	65	86	77	70	65	74	68	64	71	66	62	69	65	61	61	61	61	59	59			
5	83	72	64	59	80	71	64	58	68	62	57	66	61	57	64	59	56	56	56	56	54	54			
6	78	66	59	53	76	65	58	53	63	57	52	61	56	52	59	55	51	51	51	51	49	49			
7	73	61	54	49	71	60	53	48	59	52	48	57	51	47	55	50	47	47	47	47	45	45			
8	69	57	50	45	67	56	49	44	55	48	44	53	48	44	52	47	43	43	43	43	41	41			
9	65	53	46	41	63	52	46	41	51	45	41	50	44	40	49	44	40	40	40	40	38	38			
10	61	50	43	38	60	49	43	38	48	42	38	47	41	38	46	41	37	37	37	37	36	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	95114
5°	90559
10°	85913
15°	81419
20°	75082
25°	67350
30°	55413
35°	41289
40°	28901
45°	16485
50°	9922
55°	7036
60°	7848
65°	11381
70°	12236
75°	7791
80°	4550
85°	3397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16485 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1561.1	6.1
10°-20°	4423.0	17.3
20°-30°	6106.7	23.8
30°-40°	5164.9	20.2
40°-50°	2608.0	10.2
50°-60°	1281.8	5.0
60°-70°	1778.7	6.9
70°-80°	1229.6	4.8
80°-90°	451.9	1.8
90°-100°	283.4	1.1
100°-110°	199.4	0.8
110°-120°	216.5	0.8
120°-130°	102.4	0.4
130°-140°	65.6	0.3
140°-150°	69.3	0.3
150°-160°	49.4	0.2
160°-170°	20.8	0.1
170°-180°	4.8	0.0
0°-30°	12090.8	47.2
0°-40°	17255.7	67.4
0°-60°	21145.6	82.5
0°-90°	24605.8	96.1
90°-120°	699.3	2.7
90°-150°	936.6	3.7
90°-180°	1012.0	4.0
0°-180°	25617.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16495	
5°	16446	###
15°	15776	4423
25°	13473	6107
35°	8268	5165
45°	3204	2608
55°	1285	1282
65°	1880	1779
75°	1113	1230
85°	395	361
90°	308	172
95°	259	203
105°	170	199
115°	231	216
125°	108	102
135°	82	66
145°	112	69
155°	108	49
165°	71	21
175°	50	5
180°	49	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	16494.7
2.5°	16464.3
5°	16445.7
7.5°	16343.4
10°	16186.2
12.5°	16023.1
15°	15776.4
17.5°	15370.7
20°	14840.8
22.5°	14227.2
25°	13473.3
27.5°	12506.5
30°	11133.1
32.5°	9667.6
35°	8268.1
37.5°	6945.4
40°	5724.2
42.5°	4484.3
45°	3204.0
47.5°	2207.5
50°	1877.1
52.5°	1561.0
55°	1284.6
57.5°	1266.9
60°	1370.0
62.5°	1562.7
65°	1880.5
67.5°	2074.8
70°	1892.3
72.5°	1507.7
75°	1113.1
77.5°	806.3
80°	591.6
82.5°	458.1
85°	394.7
87.5°	355.0
90°	308.5
92.5°	280.6
95°	258.6
97.5°	239.2
100°	212.1
102.5°	180.9
105°	169.9
107.5°	185.1
110°	224.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	246.8
115°	230.7
117.5°	198.6
120°	164.8
122.5°	133.5
125°	108.2
127.5°	89.6
130°	79.4
132.5°	76.9
135°	82.0
137.5°	91.3
140°	100.6
142.5°	108.2
145°	112.4
147.5°	114.1
150°	114.1
152.5°	112.4
155°	108.2
157.5°	100.6
160°	91.3
162.5°	81.1
165°	71.0
167.5°	61.7
170°	53.2
172.5°	50.7
175°	49.9
177.5°	49.0
180°	49.0

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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	14.68	15.93	15.11	16.33	16.74	14.68	15.93	15.11	16.33	16.74
	3H	19.89	21.02	20.34	21.43	21.89	19.89	21.02	20.34	21.43	21.89
	4H	20.69	21.75	21.16	22.18	22.66	20.69	21.75	21.16	22.18	22.66
	6H	21.01	21.99	21.49	22.44	22.93	21.01	21.99	21.49	22.44	22.93
	8H	21.09	22.02	21.58	22.49	22.99	21.09	22.02	21.58	22.49	22.99
	12H	21.15	22.04	21.65	22.50	23.02	21.15	22.04	21.65	22.50	23.02
4H	2H	16.42	17.48	16.89	17.91	18.39	16.42	17.48	16.89	17.91	18.39
	3H	20.95	21.84	21.43	22.32	22.82	20.95	21.84	21.43	22.32	22.82
	4H	21.75	22.55	22.25	23.05	23.58	21.75	22.55	22.25	23.05	23.58
	6H	22.12	22.82	22.64	23.33	23.89	22.12	22.82	22.64	23.33	23.89
	8H	22.21	22.86	22.74	23.38	23.94	22.21	22.86	22.74	23.38	23.94
	12H	22.30	22.88	22.85	23.43	23.99	22.30	22.88	22.85	23.43	23.99
8H	4H	21.97	22.62	22.50	23.14	23.70	21.97	22.62	22.50	23.14	23.70
	6H	22.39	22.93	22.96	23.50	24.07	22.39	22.93	22.96	23.50	24.07
	8H	22.53	23.01	23.12	23.59	24.17	22.53	23.01	23.12	23.59	24.17
	12H	22.68	23.10	23.26	23.66	24.32	22.68	23.10	23.26	23.66	24.32
12H	4H	21.95	22.53	22.50	23.08	23.65	21.95	22.53	22.50	23.08	23.65
	6H	22.39	22.87	22.97	23.45	24.03	22.39	22.87	22.97	23.45	24.03
	8H	22.57	22.99	23.15	23.55	24.21	22.57	22.99	23.15	23.55	24.21