

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: P1221408

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (3500K_L36_Wide_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221408
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-27)
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 (3500K_L36_Wide_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, CLEAR SHADE, WIDE DISTRIBUTION.
LIGHT LEVEL 1 - 36,000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

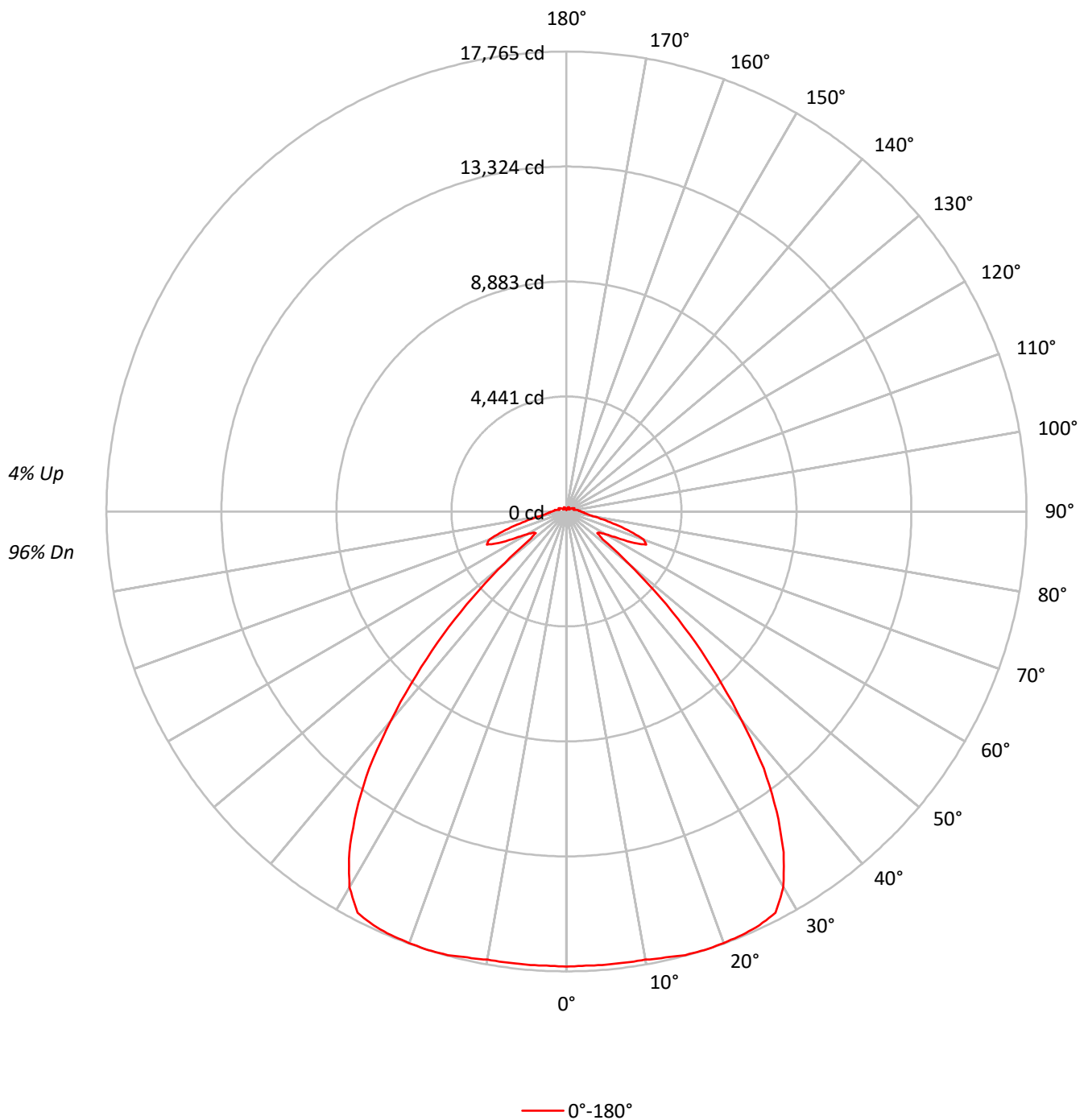
Lumens per Lamp: N/A
Luminaire Lumens: 37497.9 lumens
Efficiency: N/A
Efficacy: 162.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.21
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

Input Watts (W): 230.2
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	109	105	101	97	106	102	99	95	97	94	92	93	90	88	88	87	85	85	85	85	85	83			
2	101	93	87	82	98	91	86	81	87	83	79	83	80	76	80	77	74	74	74	74	74	72			
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	65	65	65	65	65	63			
4	87	76	68	63	84	75	67	62	72	66	61	69	64	59	66	62	58	58	58	58	56				
5	81	69	61	56	78	68	61	55	66	59	54	63	58	53	61	56	52	52	52	52	50				
6	75	63	56	50	73	62	55	50	60	54	49	58	52	48	56	51	47	47	47	47	45				
7	70	58	51	45	69	57	50	45	56	49	44	54	48	44	52	47	43	43	43	43	41				
8	66	54	46	41	64	53	46	41	51	45	40	50	44	40	49	43	39	39	39	39	38				
9	62	50	43	37	61	49	42	37	48	41	37	46	41	37	45	40	36	36	36	36	34				
10	58	46	39	34	57	46	39	34	45	38	34	43	38	34	42	37	33	33	33	33	32				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101379
5°	96792
10°	93317
15°	91541
20°	89757
25°	88152
30°	83411
35°	70694
40°	53188
45°	34686
50°	16434
55°	7914
60°	10052
65°	17475
70°	20473
75°	13727
80°	8087
85°	5993

MAXIMUM LUMINANCE 45°-90°:

Luminance: 34686 cd/sgm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1677.7	4.5
10°-20°	5021.1	13.4
20°-30°	8098.7	21.6
30°-40°	8708.1	23.2
40°-50°	5158.7	13.8
50°-60°	1597.2	4.3
60°-70°	2711.5	7.2
70°-80°	2134.2	5.7
80°-90°	801.2	2.1
90°-100°	505.3	1.3
100°-110°	314.1	0.8
110°-120°	297.5	0.8
120°-130°	144.0	0.4
130°-140°	99.9	0.3
140°-150°	111.3	0.3
150°-160°	77.5	0.2
160°-170°	33.0	0.1
170°-180°	6.9	0.0
0°-30°	14797.5	39.5
0°-40°	23505.6	62.7
0°-60°	30261.5	80.7
0°-90°	35908.4	95.8
90°-120°	1116.9	3.0
90°-150°	1472.1	3.9
90°-180°	1590.0	4.2
0°-180°	37497.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17581	
5°	17578	###
15°	17738	5021
25°	17635	8099
35°	14156	8708
45°	6742	5159
55°	1445	1597
65°	2888	2711
75°	1961	2134
85°	696	639
90°	552	307
95°	462	361
105°	266	314
115°	317	298
125°	152	144
135°	124	100
145°	181	111
155°	169	77
165°	113	33
175°	68	7
180°	67	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	17581.2
2.5°	17559.2
5°	17577.7
7.5°	17575.4
10°	17581.2
12.5°	17650.8
15°	17737.9
17.5°	17764.6
20°	17741.4
22.5°	17713.5
25°	17634.6
27.5°	17480.2
30°	16758.4
32.5°	15608.3
35°	14156.4
37.5°	12520.0
40°	10534.3
42.5°	8586.9
45°	6741.7
47.5°	4898.7
50°	3109.1
52.5°	1754.8
55°	1444.9
57.5°	1528.4
60°	1754.8
62.5°	2198.1
65°	2887.5
67.5°	3335.4
70°	3166.0
72.5°	2600.8
75°	1961.3
77.5°	1431.0
80°	1051.5
82.5°	811.2
85°	696.3
87.5°	630.2
90°	552.4
92.5°	503.7
95°	461.9
97.5°	423.6
100°	372.5
102.5°	308.7
105°	265.8
107.5°	270.4
110°	311.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	334.2
115°	316.8
117.5°	275.1
120°	229.8
122.5°	186.8
125°	152.0
127.5°	127.7
130°	112.6
132.5°	111.4
135°	124.2
137.5°	145.1
140°	164.8
142.5°	177.6
145°	181.0
147.5°	179.9
150°	176.4
152.5°	174.1
155°	169.4
157.5°	161.3
160°	146.2
162.5°	131.1
165°	112.6
167.5°	95.2
170°	80.1
172.5°	72.0
175°	68.5
177.5°	67.3
180°	67.3

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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	14.61	15.91	15.05	16.32	16.74	14.61	15.91	15.05	16.32	16.74
	3H	21.56	22.73	22.01	23.15	23.62	21.56	22.73	22.01	23.15	23.62
	4H	22.56	23.67	23.04	24.11	24.59	22.56	23.67	23.04	24.11	24.59
	6H	22.97	24.00	23.46	24.45	24.95	22.97	24.00	23.46	24.45	24.95
	8H	23.08	24.05	23.58	24.52	25.03	23.08	24.05	23.58	24.52	25.03
	12H	23.16	24.09	23.66	24.56	25.09	23.16	24.09	23.66	24.56	25.09
4H	2H	17.16	18.26	17.63	18.70	19.18	17.16	18.26	17.63	18.70	19.18
	3H	22.74	23.67	23.22	24.15	24.66	22.74	23.67	23.22	24.15	24.66
	4H	23.72	24.57	24.23	25.06	25.60	23.72	24.57	24.23	25.06	25.60
	6H	24.18	24.91	24.71	25.43	25.99	24.18	24.91	24.71	25.43	25.99
	8H	24.30	24.98	24.83	25.51	26.07	24.30	24.98	24.83	25.51	26.07
	12H	24.40	25.02	24.96	25.57	26.14	24.40	25.02	24.96	25.57	26.14
8H	4H	24.00	24.68	24.53	25.21	25.77	24.00	24.68	24.53	25.21	25.77
	6H	24.51	25.08	25.08	25.65	26.23	24.51	25.08	25.08	25.65	26.23
	8H	24.68	25.19	25.27	25.77	26.36	24.68	25.19	25.27	25.77	26.36
	12H	24.86	25.30	25.44	25.87	26.53	24.86	25.30	25.44	25.87	26.53
12H	4H	23.99	24.60	24.54	25.16	25.73	23.99	24.60	24.54	25.16	25.73
	6H	24.52	25.03	25.11	25.62	26.20	24.52	25.03	25.11	25.62	26.20
	8H	24.73	25.18	25.31	25.75	26.41	24.73	25.18	25.31	25.75	26.41